

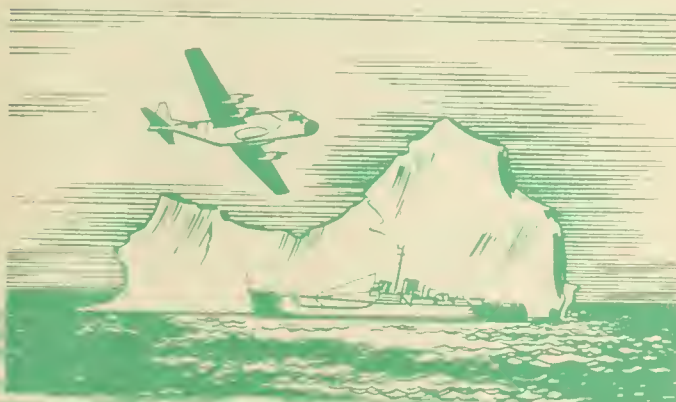
U.S. Coast Guard Oceanographic Report

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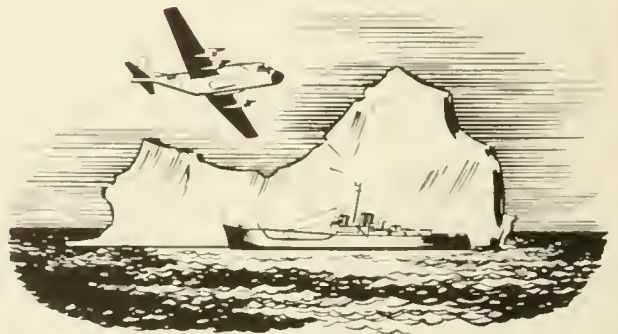
OCEANOGRAPHIC OBSERVATIONS IN THE KARA
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REPORT No. 25 CG 373-25

OCEANOGRAPHIC OBSERVATIONS IN THE KARA AND EASTERN BARENTS SEAS

Andrew W. Garcia



WASHINGTON, D.C.







Abstract

In 1967 an effort was made by USCGC EASTWIND (WAGB 279), CAPT William M. Benkert, Commanding, in company with USCGC EDISTO (WAGB 284) to conduct scientific investigations while circumnavigating the Arctic Ocean. This cruise was aborted when heavy ice blocked passage to the north of Severnaya Zemlya and the Soviet Union refused innocent passage through the Vilkitskiiy Straits. As an alternative the 1967 survey of the Kara-Barents

Seas, described in this paper, was conducted. A total of 125 hydrographic stations were occupied from 31 August to 22 September 1967. In addition to Nansen casts conducted at all stations, bottom samples were obtained at 27 stations and surface plankton tows at 11. Preliminary results show extensive surface cooling taking place in the Barents Sea and a water mass structure unlike those previously reported in the Kara Sea.

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Oceanographic Observations in the Kara and Eastern Barents Seas

INTRODUCTION

The 1967 Eastwind Arctic Survey was conducted after an attempt to circumnavigate the Arctic Ocean had to be discontinued. Consolidated pack ice up to thirty feet in thickness in the area of latitude 81°27' N. and longitude 77°58' E. prevented passage to the north of Severnaya Zemlya. Consequently an alternative Survey of the Kara and eastern Barents Seas was performed.

The Eastwind Arctic Survey is the second survey conducted in the area of Kara and Barents Seas aboard a U.S. Coast Guard vessel. The first was aboard CGC NORTHWIND (WAGB 282) in 1965. This cruise was conducted by the Naval Oceanographic Office, the results of which appear in a report by D. Milligan (in press).

The survey was begun on 31 August and completed on 22 September 1967. Objectives of the survey were to gain a greater general knowledge of the physical, chemical and biological characteristics of the water masses of the Kara and eastern Barents Seas, and to conduct bathymetric and limited geological surveys of the area.

Data acquired includes Nansen casts and bathythermograph observations at 125 hydrographic stations; 40 in the Kara Sea, 82 in the Barents Sea and 3 in the Norwegian Sea. Station Locations are shown in Figure 1. Also obtained were 27 bottom samples utilizing a Phleger corer with a three foot barrel and 11 horizontal surface plankton tows with a 0.5 meter, #20 mesh net. Continuous bathymetric profiling was conducted throughout the survey area. Five hundred thirty-two weather observations were taken at intervals of three hours and 266 at intervals of six hours. Seventy two successful radiosonde observations were taken to obtain information on the upper air. Con-

tinuous observations of carbon dioxide and ozone content were also made.

DATA ANALYSIS AND PRESENTATION

A portion of the data was processed with the aid of a Digital Equipment Corporation PDP-5 computer. This includes correction of the reversing thermometers, and interpolation of temperature and salinity at specified depths. The processed data were checked for accuracy, coded and forwarded to the National Oceanographic Data Center.

Presented herein are figures displaying the horizontal isopleths of temperature and salinity, Figures 2 to 11; the vertical distribution of temperature, salinity, and oxygen, Figures 12 to 59; and the temperature vs. salinity plots at selected stations, Figures 60 to 81.

PHYSICAL CHARACTERISTICS OF KARA AND EASTERN BARENTS SEA

The Kara Sea Basin is a relatively closed, shallow basin with a volume of approximately $1.04 \times 10^3 \text{ km}^3$. The Ob, Yenisy, Pechora and lesser rivers discharge approximately $1.10 \times 10^3 \text{ km}^3$ of fresh water into the basin annually (Milligan, in press). Consequently a large proportion of the water mass in the Kara Sea is of low salinity.

Surface salinities of slightly less than 9‰ were observed in the proximity of the mouth of the Yenisy River. At only two stations in the Kara Sea did the value of surface salinity exceed 32‰. As might be expected, the extremely low salinity water is confined to the surface layers, that is, the upper 25m.

Vertical sections of salinity across the northern boundary of the Kara Sea from the tip of Novaya Zemlya to Oa Izestig Tsik indicate the region of mixing of the fresh water outflow from the rivers is confined to a relatively small

area within the basin. This does not necessarily mean the mixing is rapid, however. The fresh water inflow into the Kara Sea, while relatively large, amounts to less than one-third of one-percent of the volume of the basin per day. Quantitatively this means approximately 3km^3 per day must mix thoroughly with the surrounding water in order to maintain the average salinity in the area of mixing. As Sverdrup has noted the effect of the fresh water runoff is likely to be much more marked in summer than in winter (Sverdrup, 1950). The fresh water runoff when mixed with Arctic water with salinity of approximately 34.5‰ and temperature -1.7° to -1.8° C. probably forms the surface water found to the north of Novaya Zemlya between Franz Josef Land and the Russian Continent. The formed water mass is characterized by temperatures of approximately -1.0 to 0.5° C. and salinities of 25‰ to 30‰ (Milligan, in press).

CHARACTERIZATION OF WATER MASS

Figures 60 through 81 are T-S diagrams at selected stations in the Kara and Barents Seas. These stations were selected with the intention that the great variability of water mass characteristics in these areas should be exemplified. That the water mass characteristics in the Kara Sea are extremely variable was noted by Nansen from data taken from cruises by Nansen and Nordenskiöld, (Nansen, 1902).

Figures 73 through 81 show a progressive decrease in surface temperature from 6.75° C. to 1.15° C. from latitude $72^\circ 00'$ N. to $77^\circ 37'$ N. in the Barents Sea. The drop in temperature is probably due to surface cooling as the water flows northward.

Figures 73, 74, and 75 show at first glance what appear to be density inversions. However, for these approximate values of temperature and salinity, the lines of constant σ_t are nearly vertical indicating the density is salinity controlled. Therefore, the σ_t values actually increase with depth. These figures show evidence of lateral mixing with a different water mass. Figure 11 shows a core of relatively high salinity water entering through the eastern boundary of the survey area. The 34.95‰ isohaline was chosen as the boundary of the core. This water is probably Deep Polar Water described by Nansen (Sverdrup, 1950)

and Zenkevitch (1963) which has broken from a gyre originating in a southward flow of Deep Polar Water to the east of Franz Josef Land. Figures 73, 74, and 75 also show a water type of unknown origin in association with the Deep Polar Water. This water type is characterized by temperatures of 0.0° C. to -0.6° C. and salinities of 34.75‰ to 34.90‰.

The oxygen distribution of the Kara Sea was examined using Wust's core method (Wust, 1964), using the 9.0ml/l isopleth as the boundary. Figure 10 shows the isopleth to be closed on three sides and bounded on the fourth by Novaya Zemlya. This may indicate the flow of water masses with discrete characteristics into the Kara Sea basin.

A similar analysis was carried out for the eastern Barents Sea, using the 8.0ml/l isopleth as the boundary again as shown in Figure 10. There is a tongue extending northeastward adjacent to Novaya Zemlya.

Figures 68 and 69, drawn from data taken at stations 30 and 31 only 27.6 miles apart, illustrate the extreme spatial gradients in water properties which occur in the region.

CIRCULATION OF BARENTS AND KARA SEAS

Consideration was given to attempting a computation of dynamic topography in the Kara Sea from the data obtained aboard GCG EASTWIND. Preliminary investigations, however, indicated the area to be too shallow for satisfactory application of the usual technique of referencing each station to a level of no motion. No further effort was made to compute the dynamic topography.

Previous studies have shown current speeds in regions of the Kara and Barents Seas to be quite low. Nansen's drift measurements aboard the FRAM (Sverdrup, 1950) indicate that surface currents in the region of the southern entrance of the Barents Sea move at about 1.5 nautical miles per day. Milligan (in press) placed current meters in two locations in the vicinity of the Kara Sea. One of these was placed thirty miles west of Proliv Vilkitskogo at a depth of 80m. The average velocity recorded was approximately 0.15 knots in a west-southwest direction.

Sverdrup, et al, 1960 indicates that the circulation in the Barents Sea is predominantly counterclockwise and wind driven.

Perhaps one of the most detailed discussion of currents of this region is by Novitskiy (1961). Preobrozhen'skiy and Novitskiy distinguish twenty-nine separate currents and their branches as occurring in the Barents Sea. Of particular interest to this study was a current which they labeled as the Pechora Current. This current originates in the Western Barents Sea and flows through the Pechora Sea where a portion of it enters the Kara Sea through Proliv Karaskiye Varota. This is shown in Figures 2 and 4 by a tongue of warm water protruding into the southern Kara Sea at about station 3.

It has generally been accepted that the predominant current scheme in the Kara Sea is cyclonic with water entering from the Barents Sea, flowing adjacent to the east coast of Novaya Zemlya, turning northward and exiting through the northeastern portion of the Kara Sea. Such a circulation is not evidenced in the data of this study (Figures 2, 4, 6, and 8). Rather, there seems to be a general northward flow through the Kara Sea. It is likely that there is some entrainment with the outflow from the Ob and Yenisey Rivers which would contribute to the general pattern of northward flow.

CONCLUDING REMARKS

The studies done by Nansen (1902), Sverdrup (1950), Zenkevitch (1963), Milligan (in press) and this author suggest that the circulation in the Kara Sea is not stationery and, in fact, is characterized by few permanent features. It is doubtful that such differing conditions could be observed without some transient phenomena being present.

Nansen (1902) observed the presence of "dead water" waves in the area and cited evidence of oscillations of the boundary between warm and cold currents. Neumann and Pierson (1966) state that conditions of strong density gradients similar to those found in the Kara Sea are very conducive to the formation of internal waves. It is indeed very probable that some of the (temporal) variation of the normally observed oceanographic parameters is due to internal oscillations in the Kara Sea. However, with the present data available, which do not include extensive time series observations, it is very difficult to determine the modes of the oscillations and hence the forces which govern them.

Future surveys in the area might consider the possibility of conducting continuous or close interval serial observations at several stations in order to determine the modes of these oscillations if, in fact, they do exist. Such oscillations would probably be easiest to detect and observe in the summer months when the ice has melted and the river outflow is greatest resulting in a maximum vertical salinity gradient.

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Table of Oceanographic Data

The following are the observed and interpolated data taken aboard the USCGC EDISTO (WAGB 284) and USCGC EASTWIND (WAGB 279) during the Barents-Kara Seas Survey. Presentation is from National Oceanographic Data Center Cruise Listing No. 31-1165.

Notes:

Depth to bottom—uncorrected sounding depth in meters based on a speed of sound in sea water of 1463.0 m/sec.

Depth (m)—postscript T indicates a depth determined by thermometric calculation.

Sound velocity—in meters per second to tenths according to Wilson's formula.

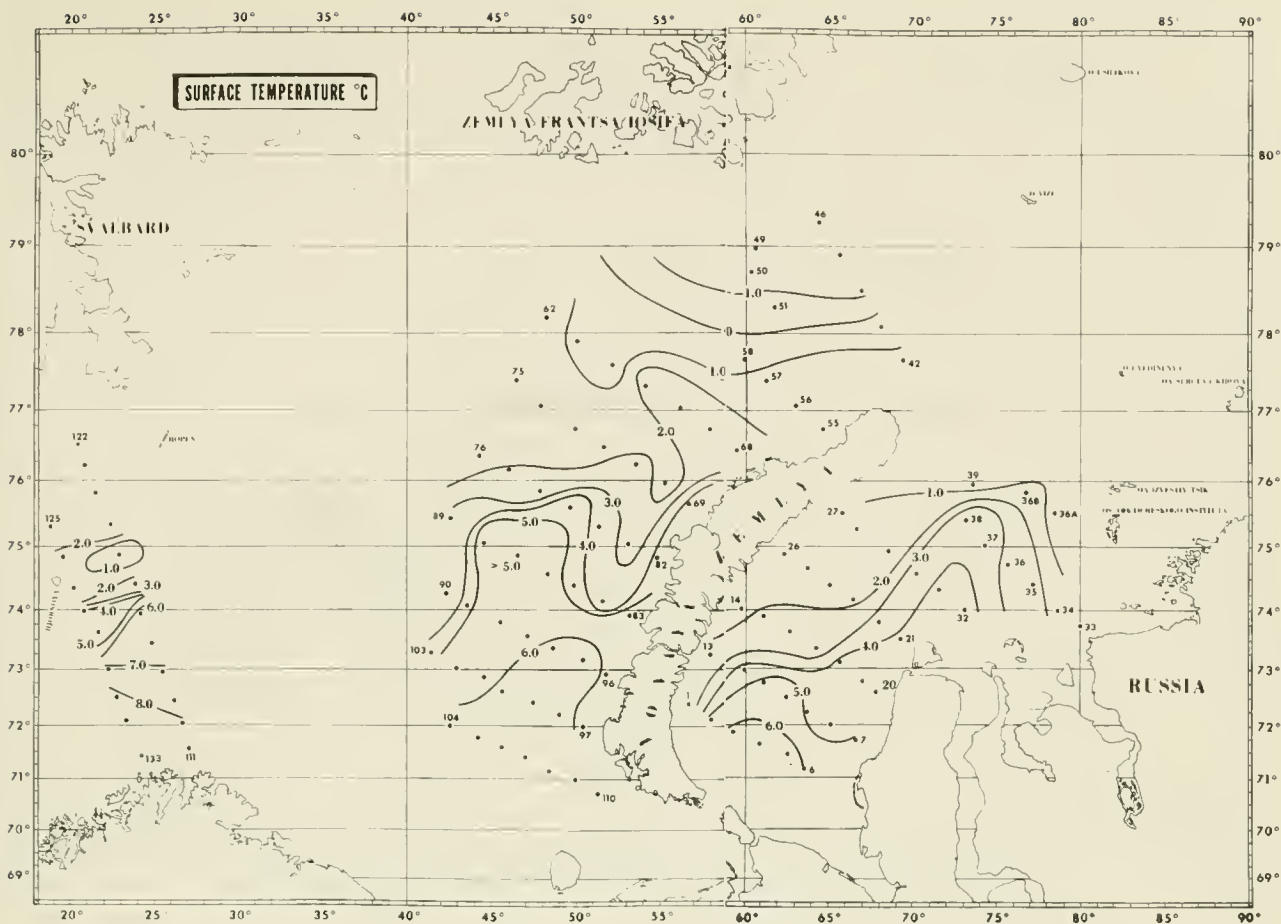


Figure 2. Contours of Surface Isotherms.

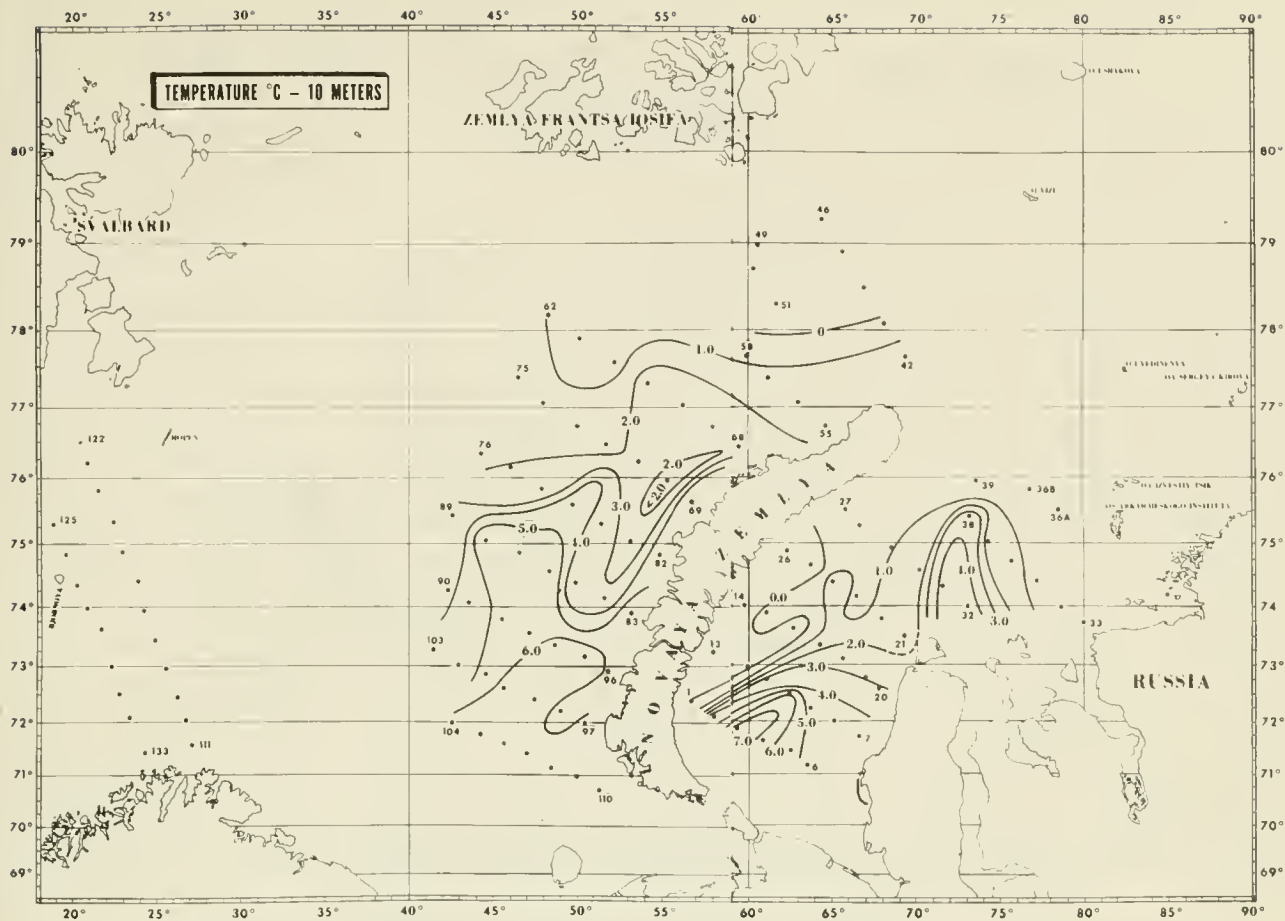


Figure 4. Contours of Isotherms at 10m Depth.

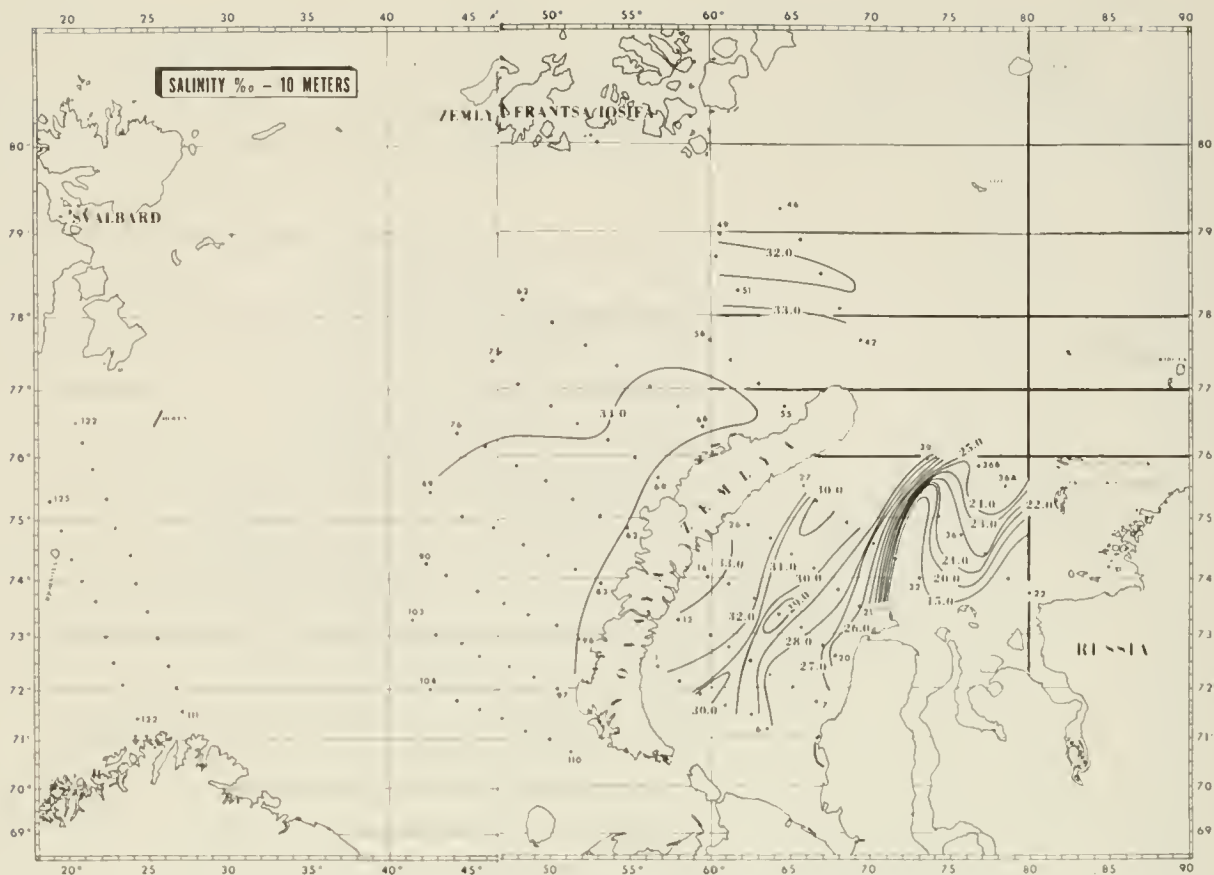


Figure 5. Contours of Isohalines at 10m Depth.

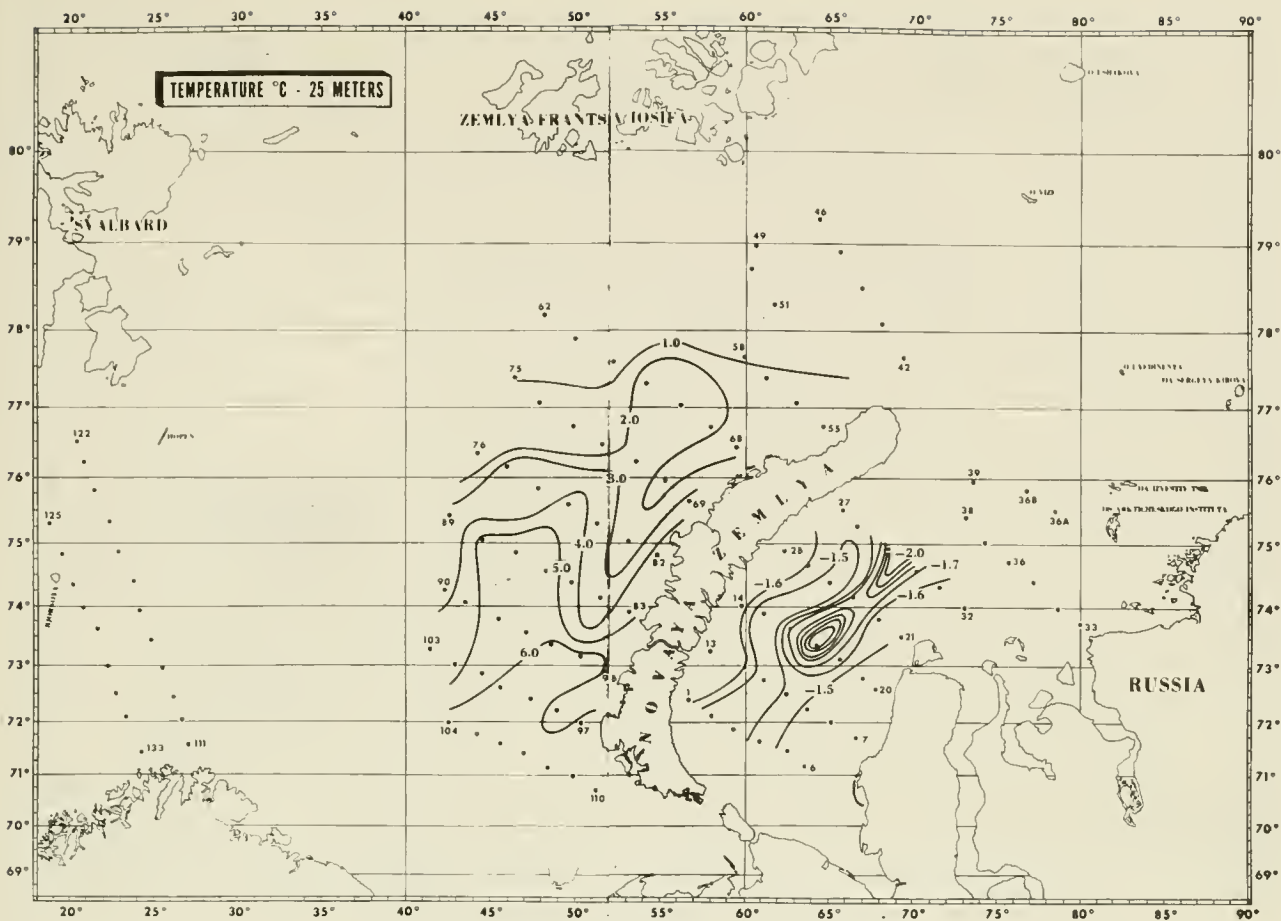


Figure 6. Contours of Isotherms at 25m Depth.

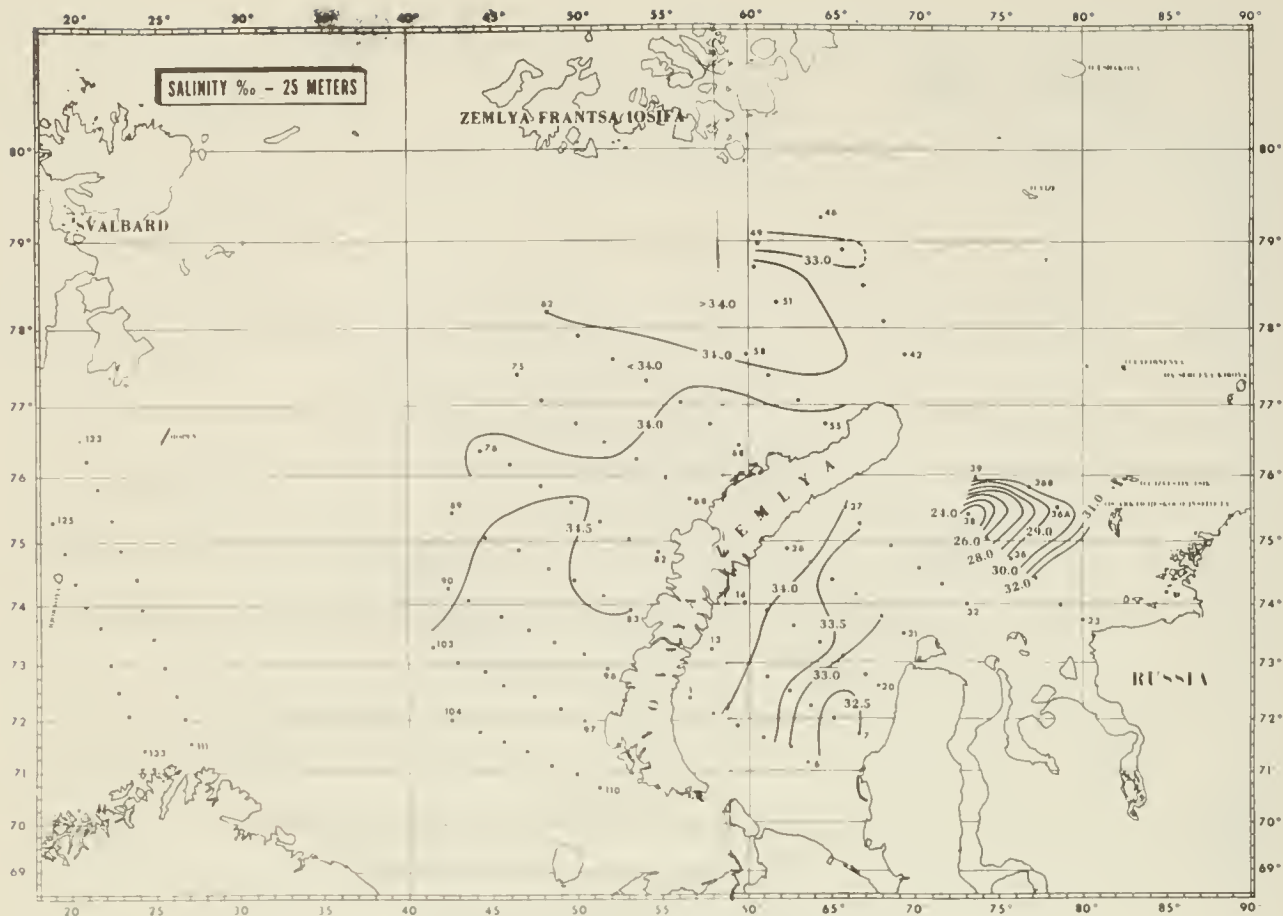


Figure 7. Contours of Isohalines at 25m Depth.

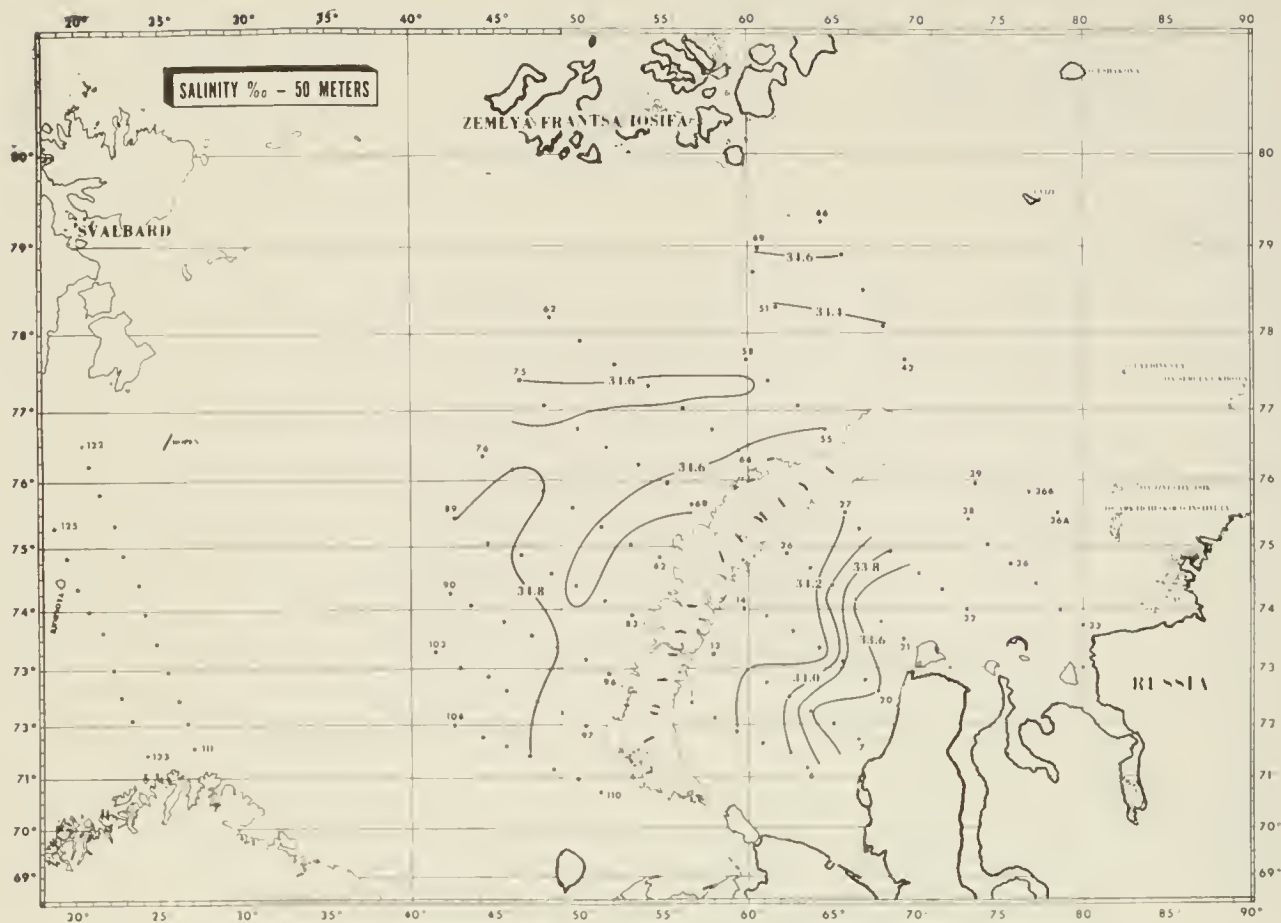


Figure 9. Contours of Isohalines at 50m Depth.

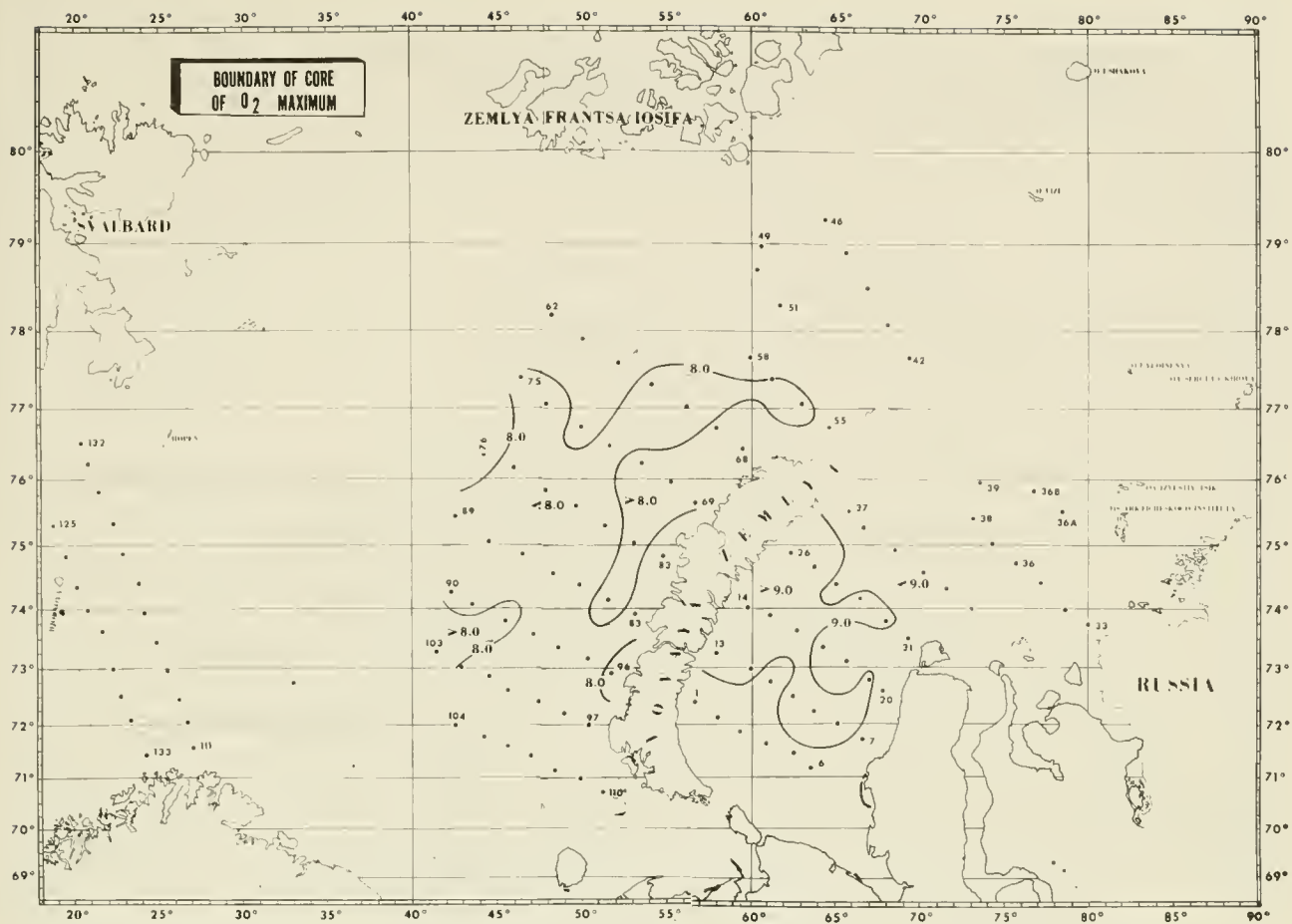


Figure 10. Contours of Isopleths of Oxygen at 8.0 ml/l and 9.0 ml/l in Barents and Kara Seas Respectively.

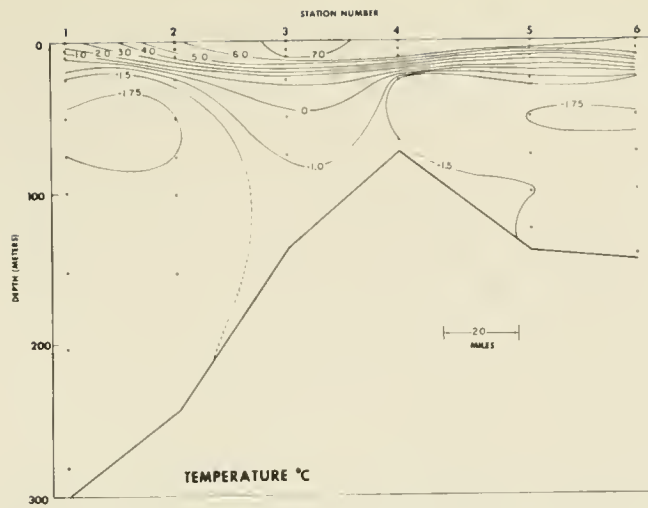


Figure 12. Vertical Distribution of Temperature, Stations 1 through 6.

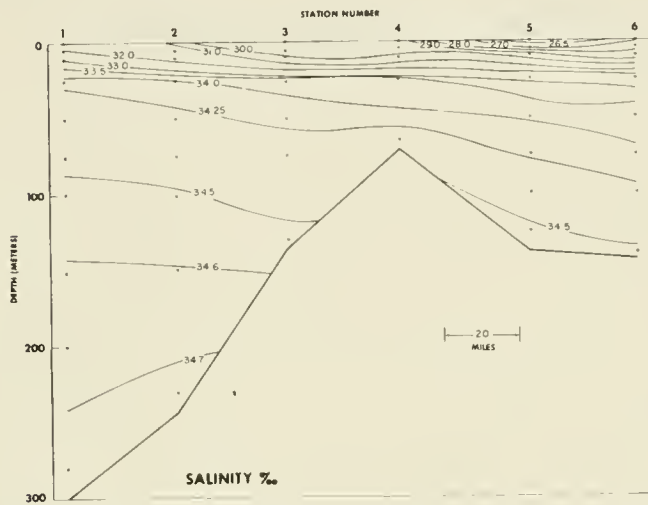


Figure 13. Vertical Distribution of Salinity, Stations 1 through 6.

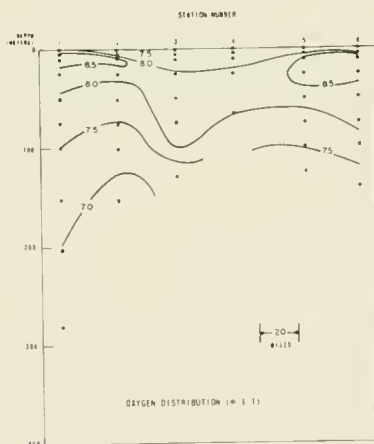


Figure 14. Vertical Distribution of Oxygen, Stations 1 through 6.



Figure 15. Vertical Distribution of Temperature, Stations 7 through 13.

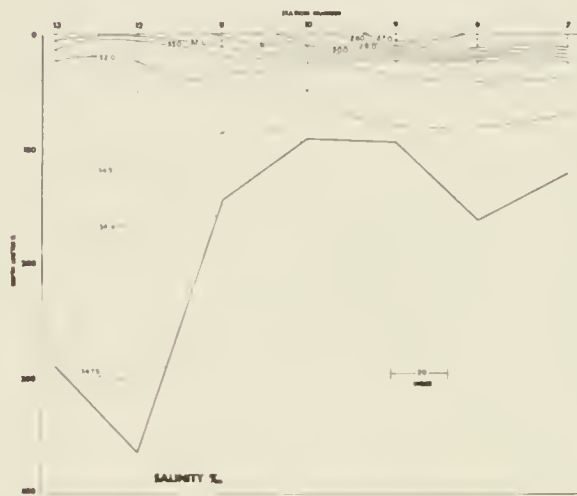


Figure 16. Vertical Distribution of Salinity, Stations 7 through 13.

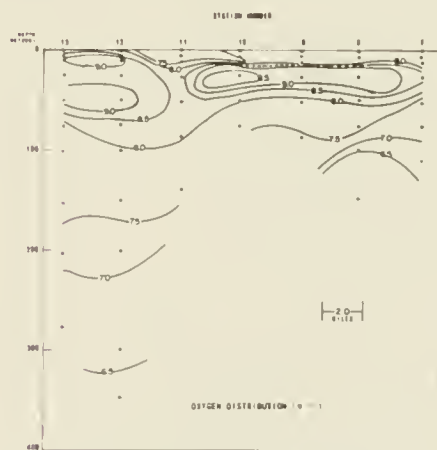


Figure 17. Vertical Distribution of Oxygen, Stations 7 through 13.



Figure 21. Vertical Distribution of Temperature, Stations 21 through 26.



Figure 22. Vertical Distribution of Salinity, Stations 21 through 26.

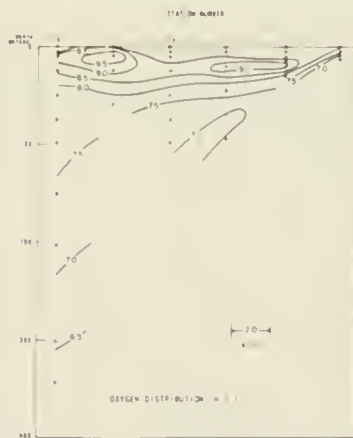
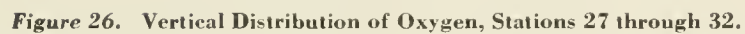
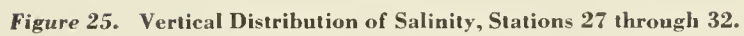


Figure 23. Vertical Distribution of Oxygen, Stations 21 through 26.



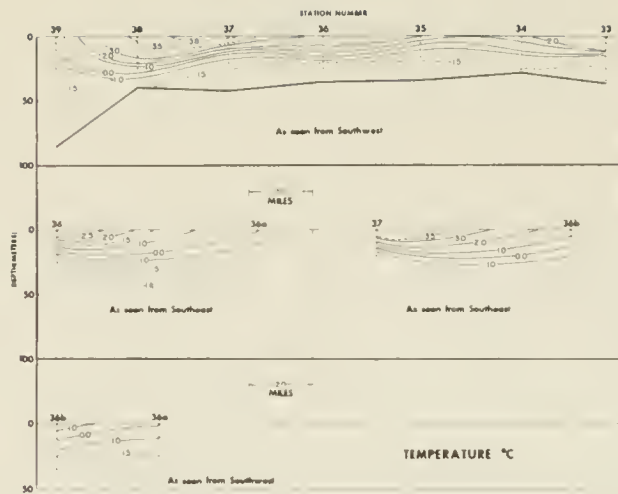


Figure 27. Vertical Distribution of Temperature, Stations 33 through 39.

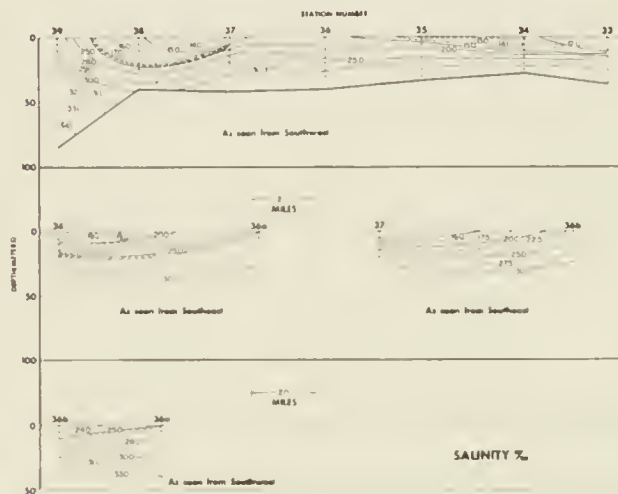


Figure 28. Vertical Distribution of Salinity, Stations 33 through 39.

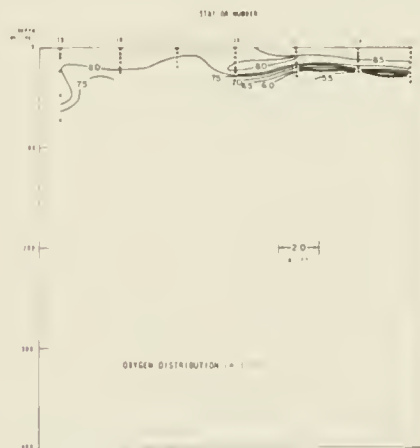


Figure 29. Vertical Distribution of Oxygen, Stations 33 through 39.

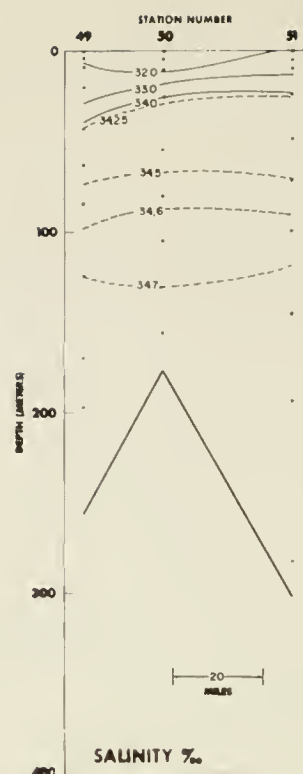
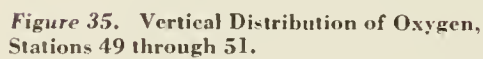


Figure 34. Vertical Distribution of Salinity, Stations 49 through 51.



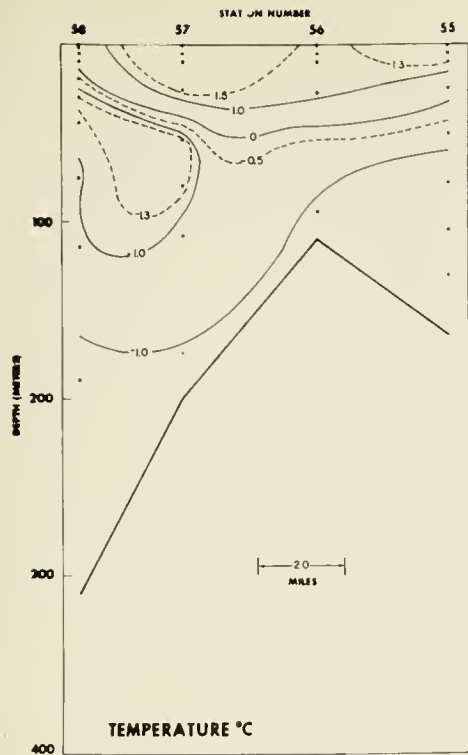


Figure 36. Vertical Distribution of Temperature, Stations 55 through 58.

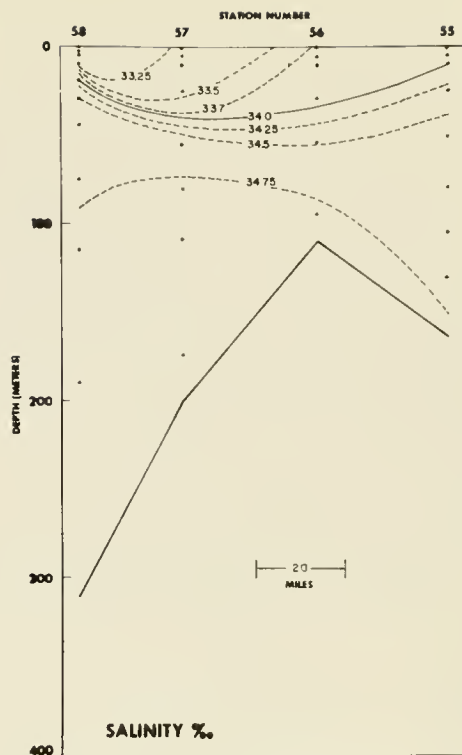


Figure 37. Vertical Distribution of Salinity, Stations 55 through 58.

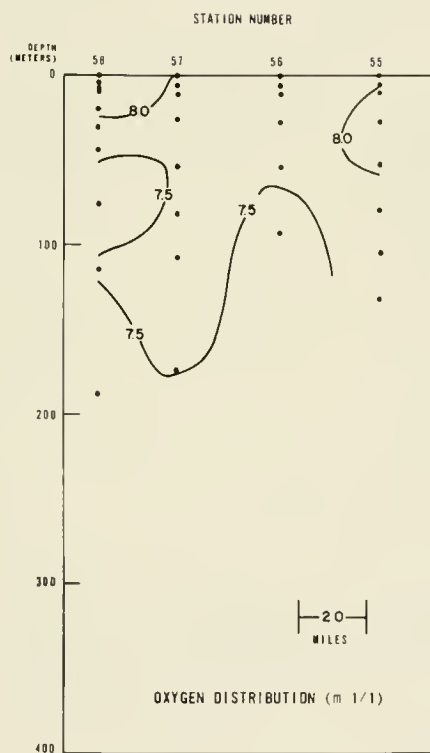


Figure 38. Vertical Distribution of Oxygen, Stations 55 through 58.

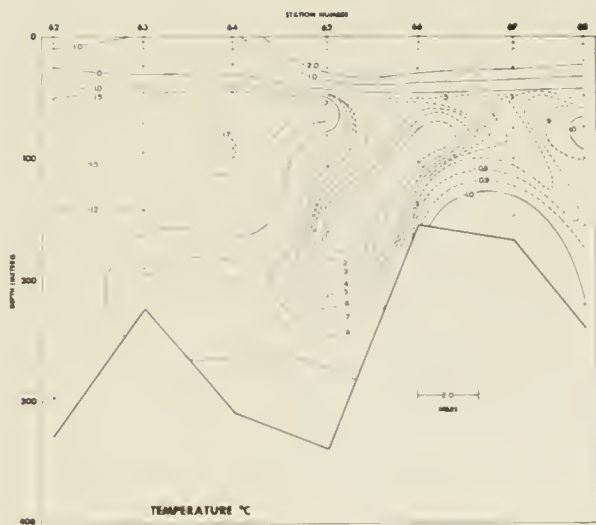


Figure 39. Vertical Distribution of Temperature, Stations 62 through 68.

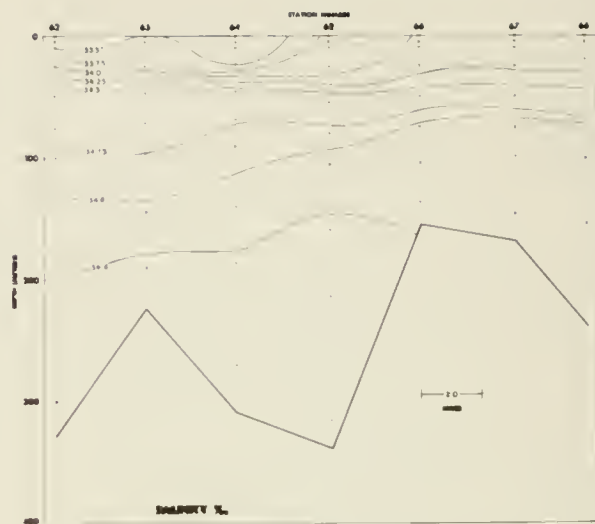


Figure 40. Vertical Distribution of Salinity, Stations 62 through 68.

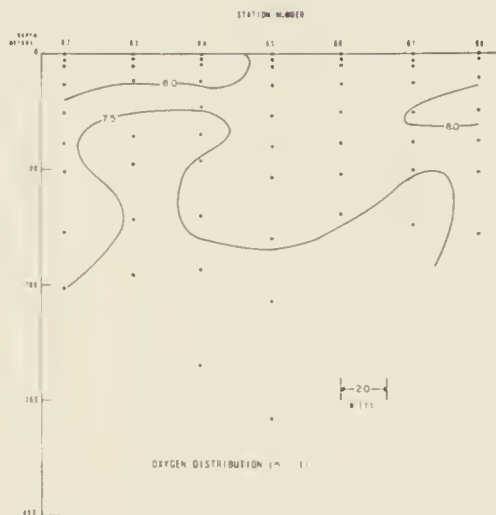


Figure 41. Vertical Distribution of Oxygen, Stations 62 through 68.

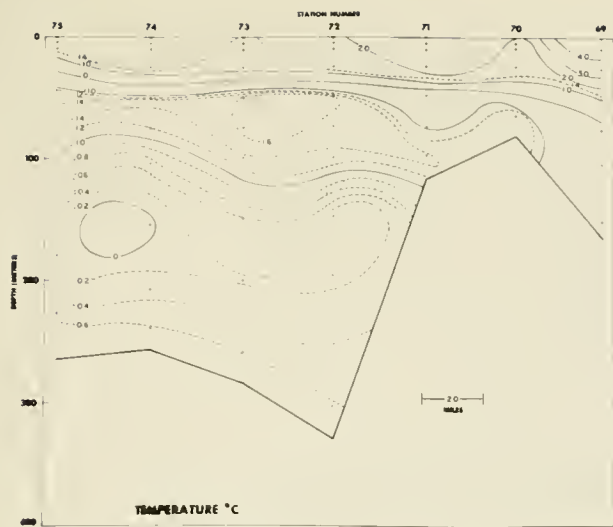


Figure 42. Vertical Distribution of Temperature, Stations 69 through 75.

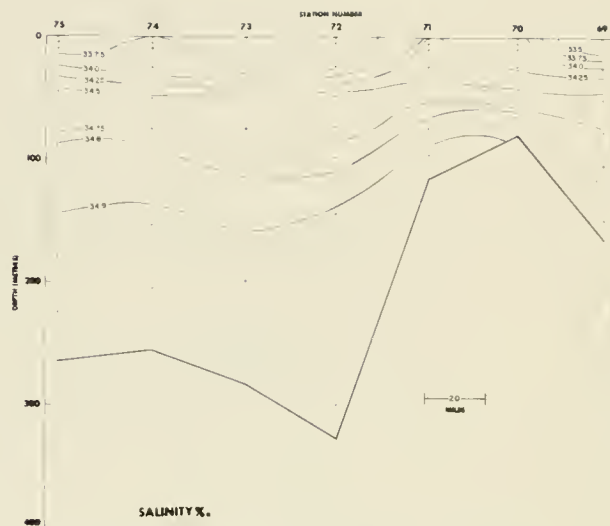


Figure 43. Vertical Distribution of Salinity, Stations 69 through 75.

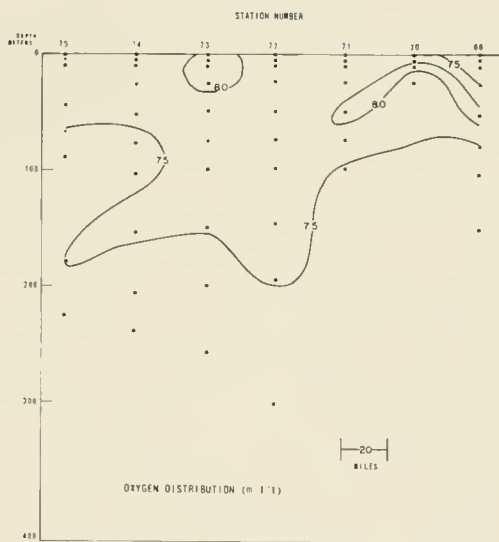


Figure 44. Vertical Distribution of Oxygen, Stations 69 through 75.

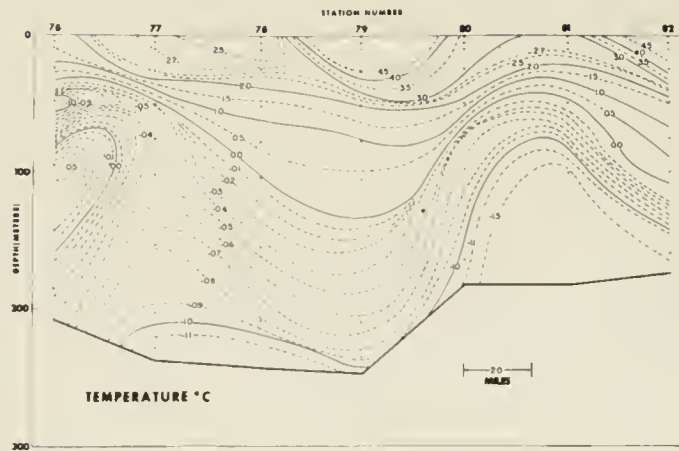


Figure 45. Vertical Distribution of Temperature, Stations 76 through 82.

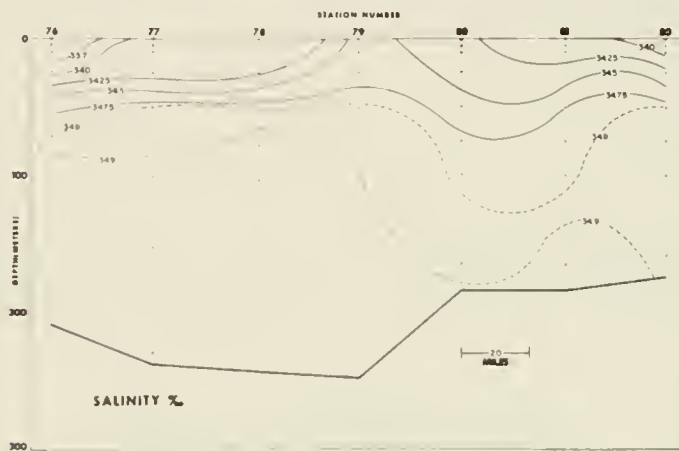


Figure 46. Vertical Distribution of Salinity, Stations 76 through 82.

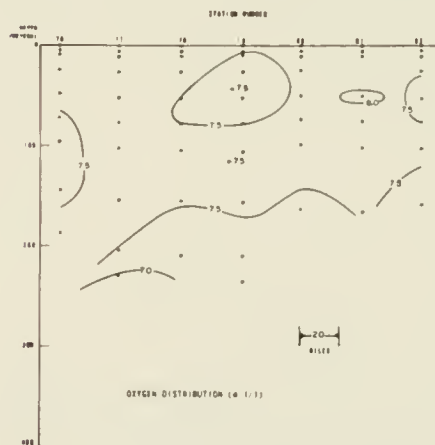
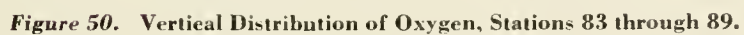
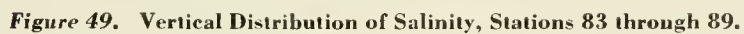
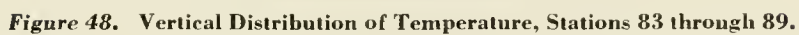


Figure 47. Vertical Distribution of Oxygen, Stations 76 through 82.



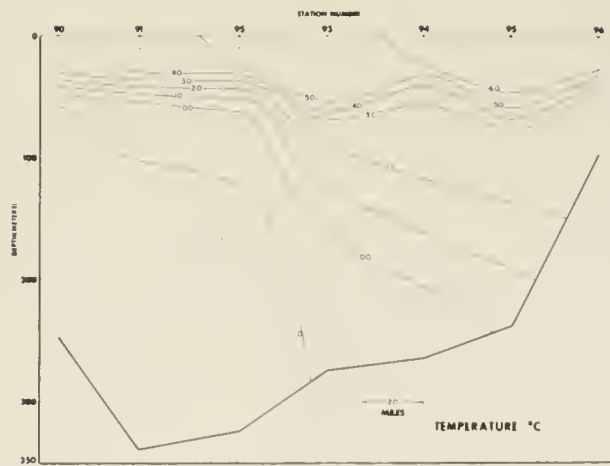


Figure 51. Vertical Distribution of Temperature, Stations 90 through 96.

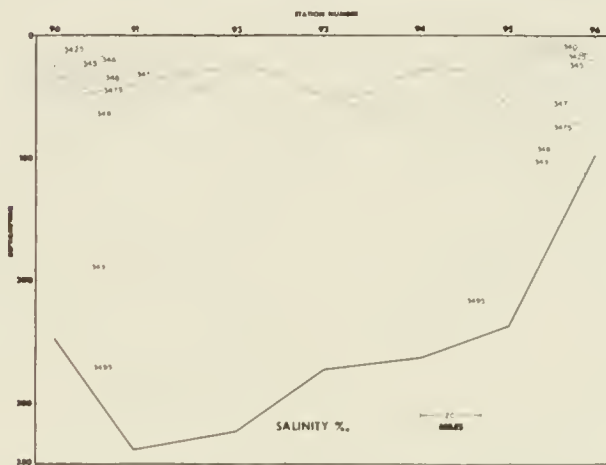


Figure 52. Vertical Distribution of Salinity, Stations 90 through 96.

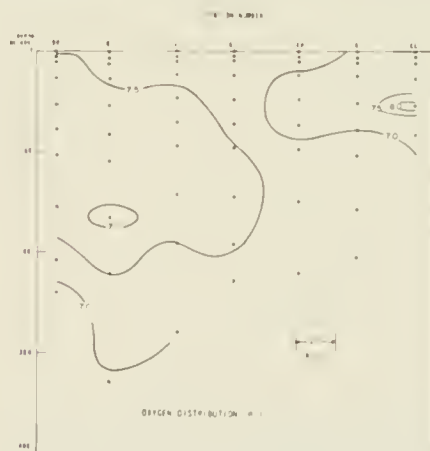


Figure 53. Vertical Distribution of Oxygen, Stations 90 through 96.

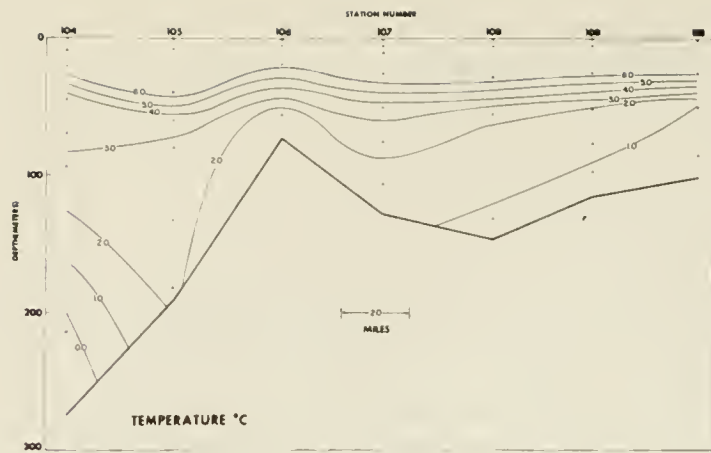


Figure 57. Vertical Distribution of Temperature, Stations 104 through 110.

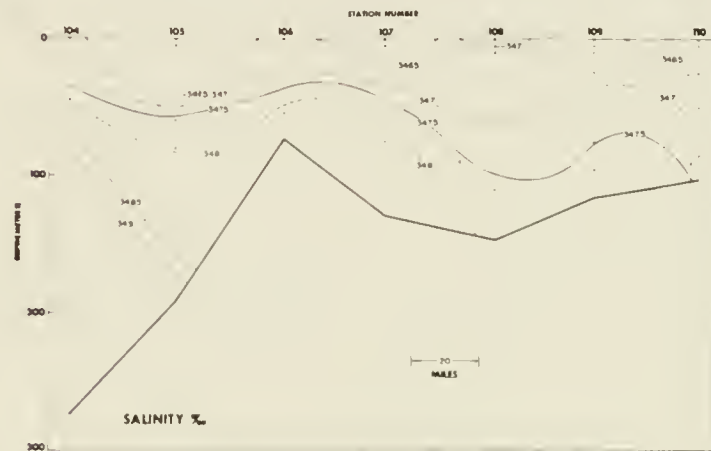


Figure 58. Vertical Distribution of Salinity, Stations 104 through 110.

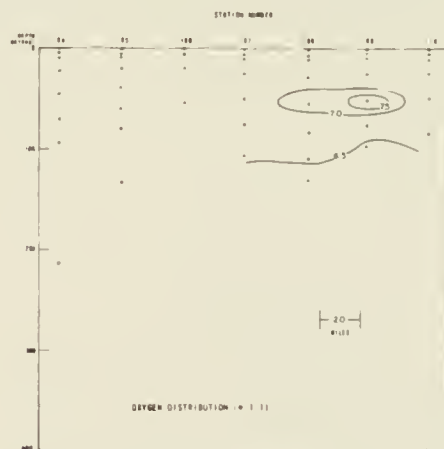


Figure 59. Vertical Distribution of Oxygen, Stations 104 through 110.

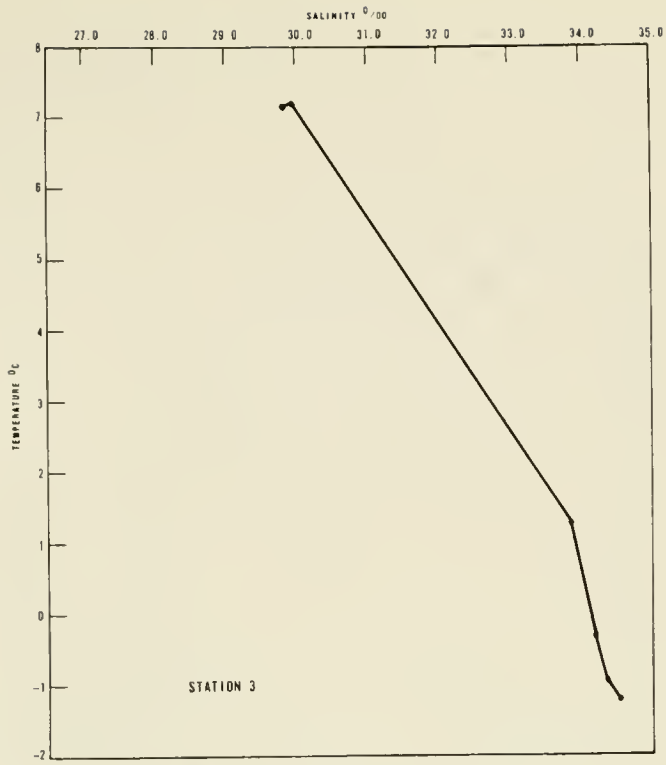


Figure 60. T-S Plot, Station 3.

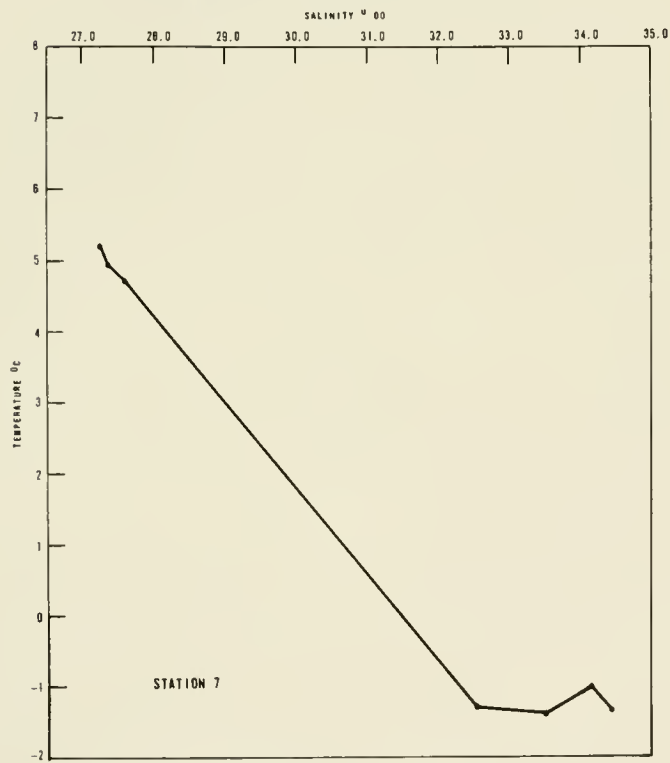


Figure 61. T-S Plot, Station 7.

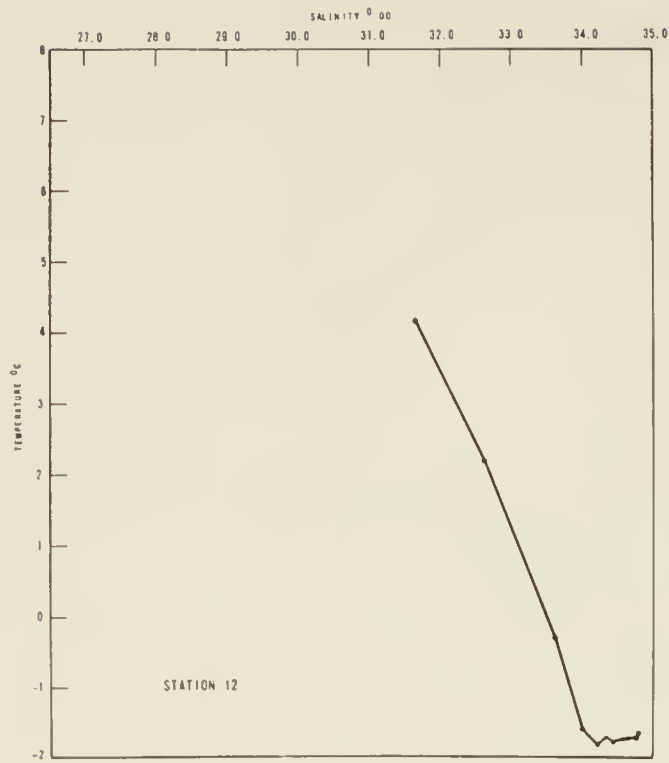


Figure 62. T-S Plot, Station 12.

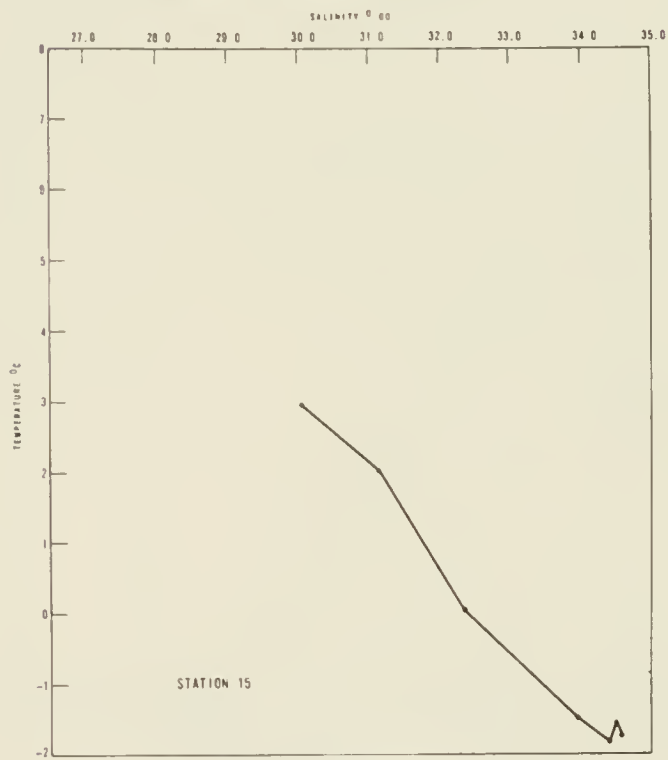


Figure 63. T-S Plot, Station 15.

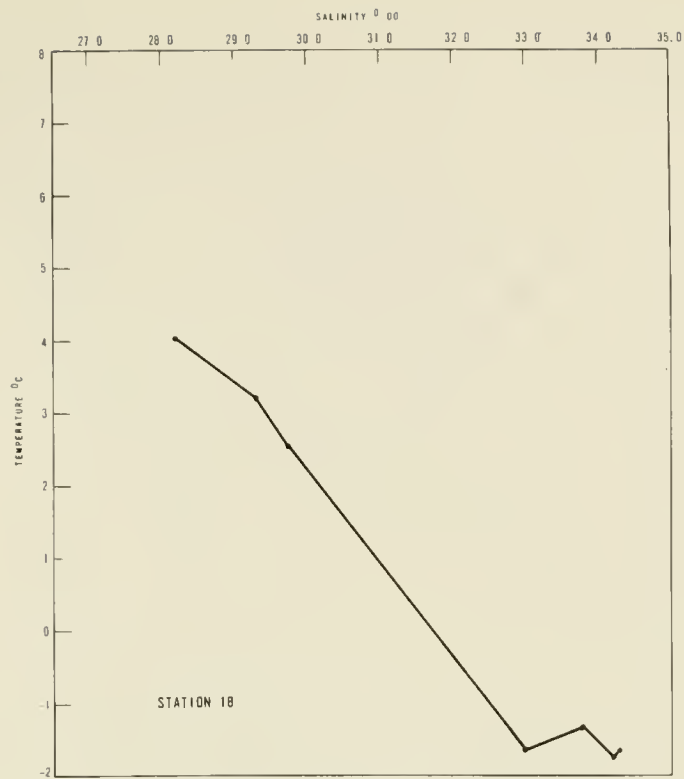


Figure 64. T-S Plot, Station 18.

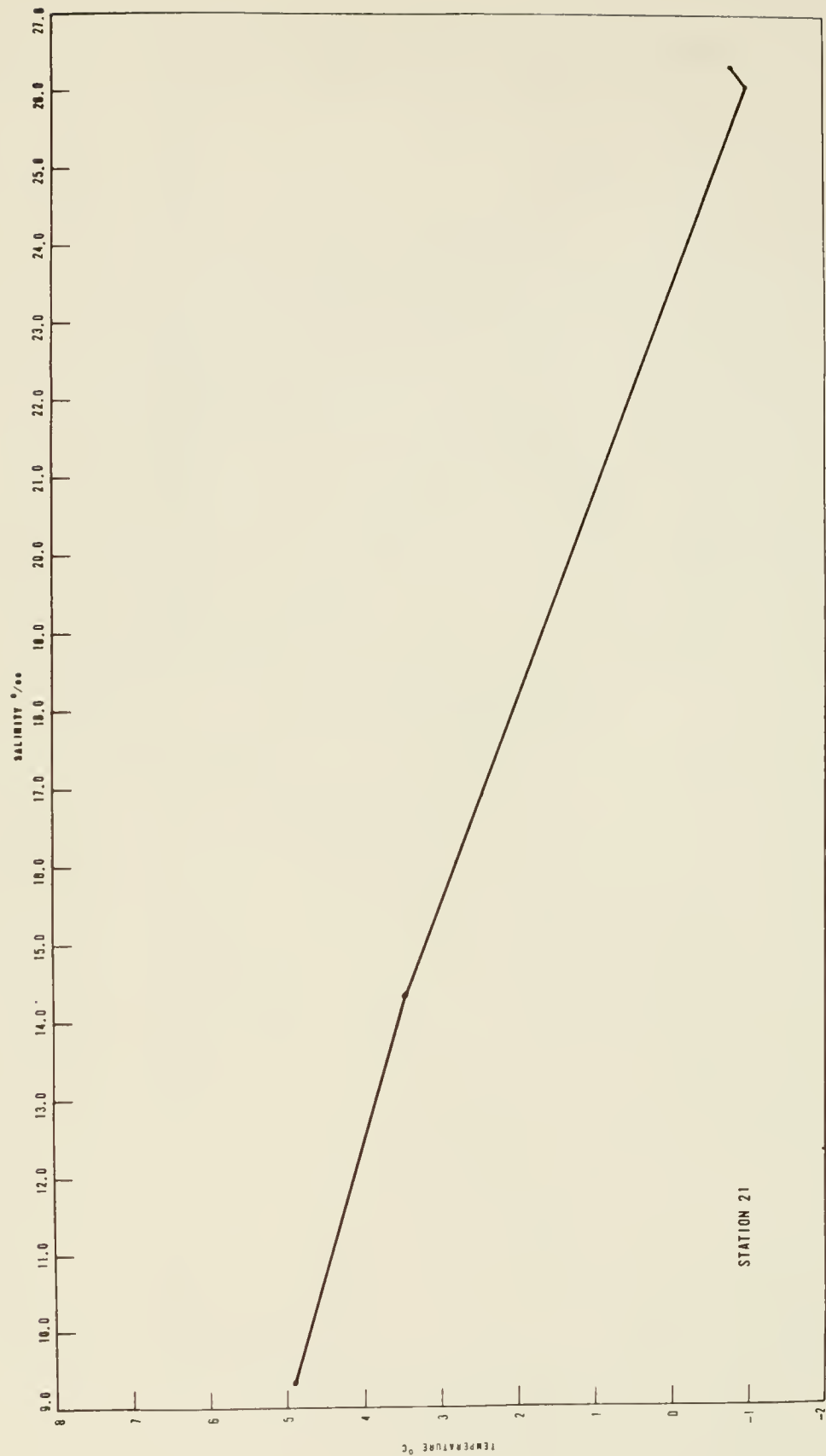


Figure 65. T-S Plot, Station 21.

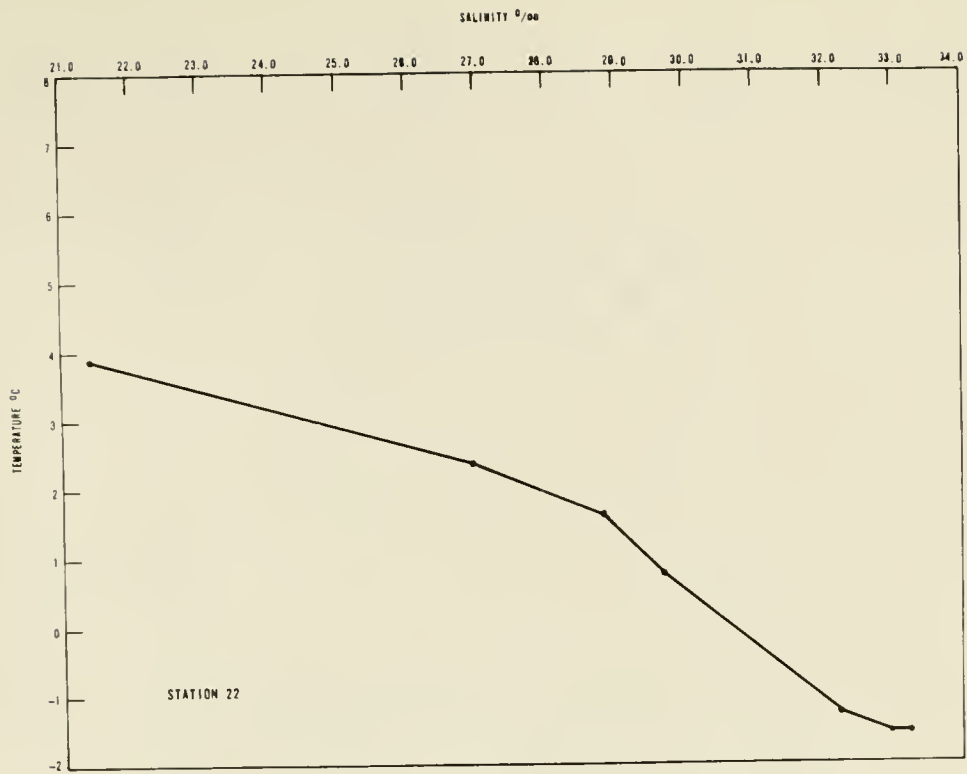


Figure 66. T-S Plot, Station 22.

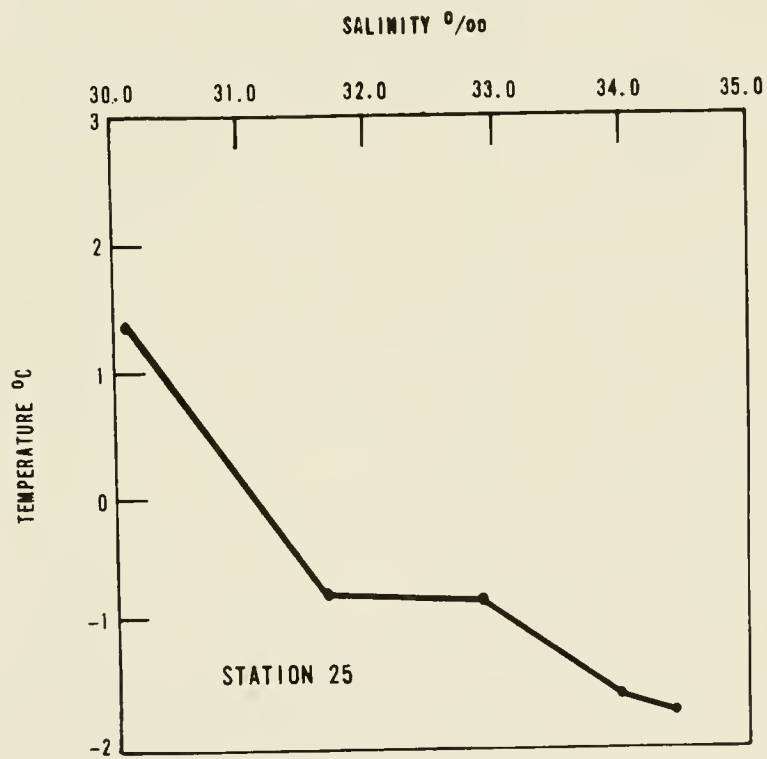


Figure 67. T-S Plot, Station 25.

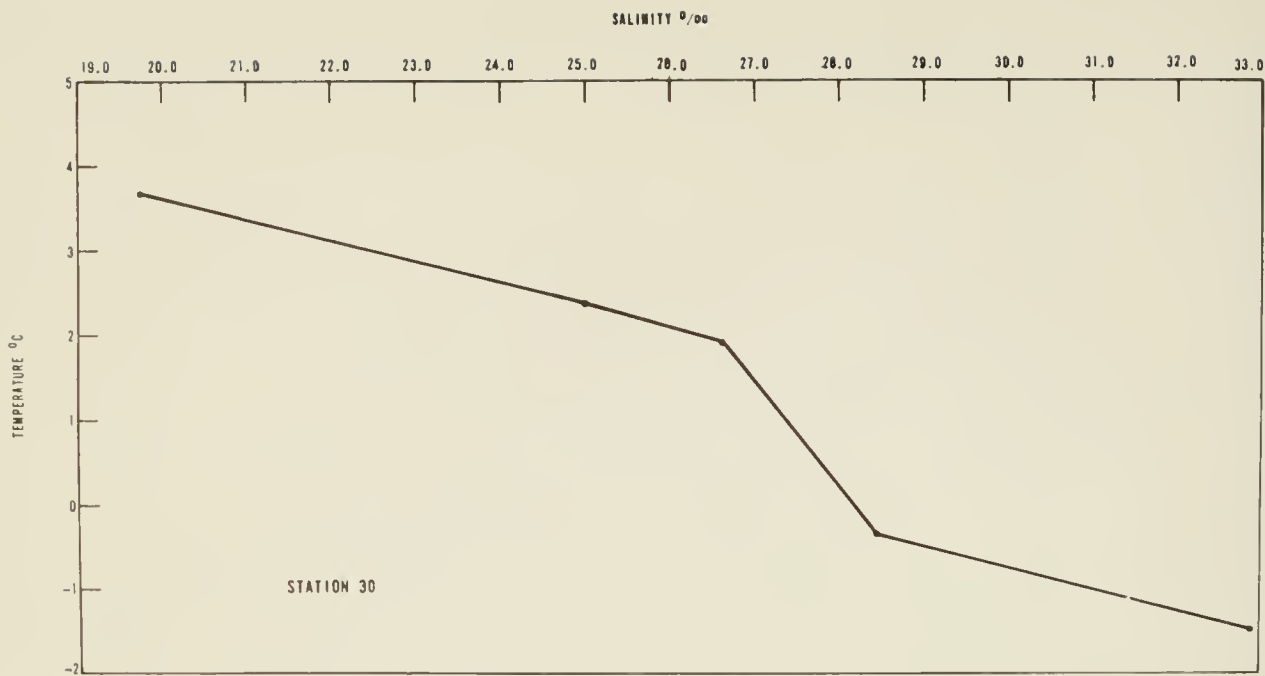


Figure 68. T-S Plot, Station 30.

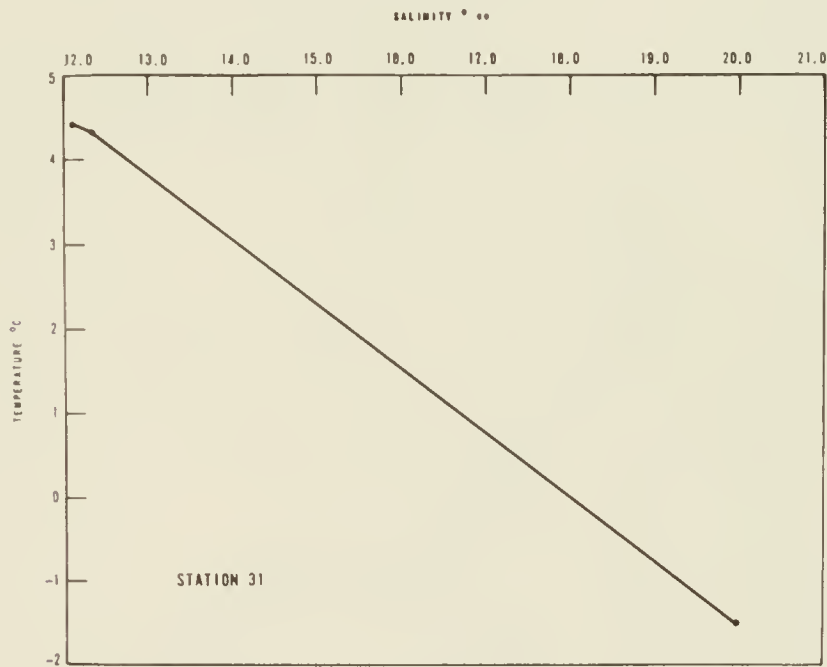


Figure 69. T-S Plot, Station 31.

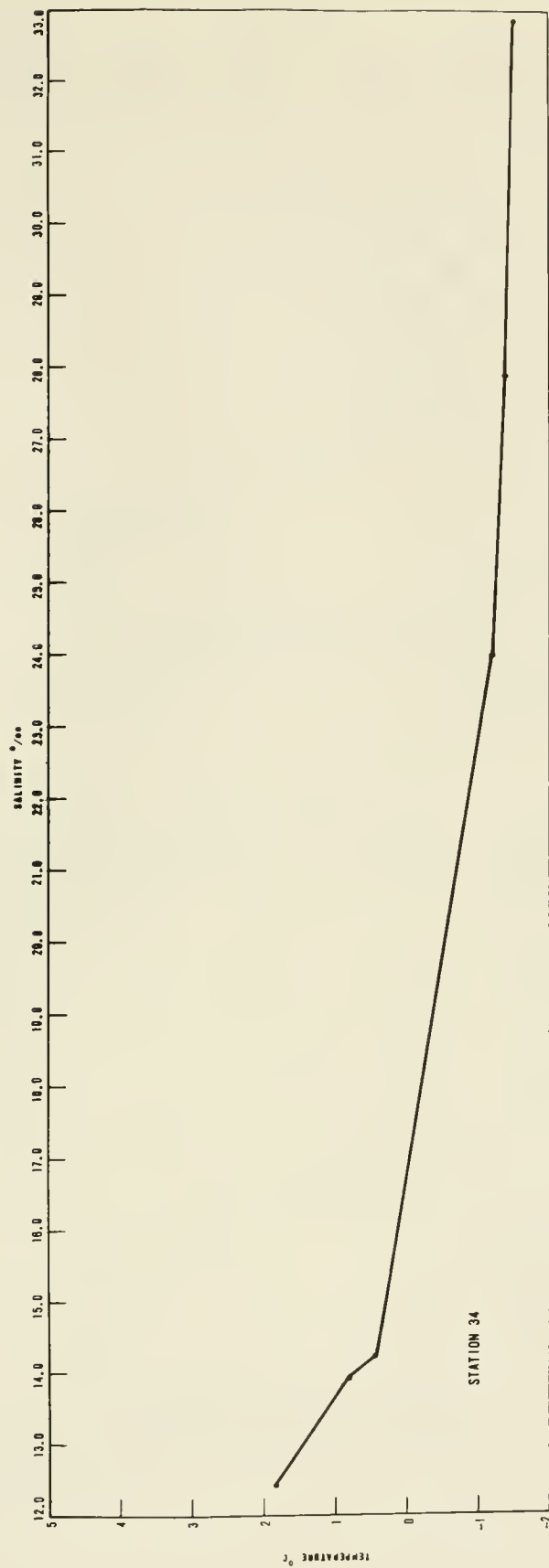


Figure 70. T-S Plot, Station 34.

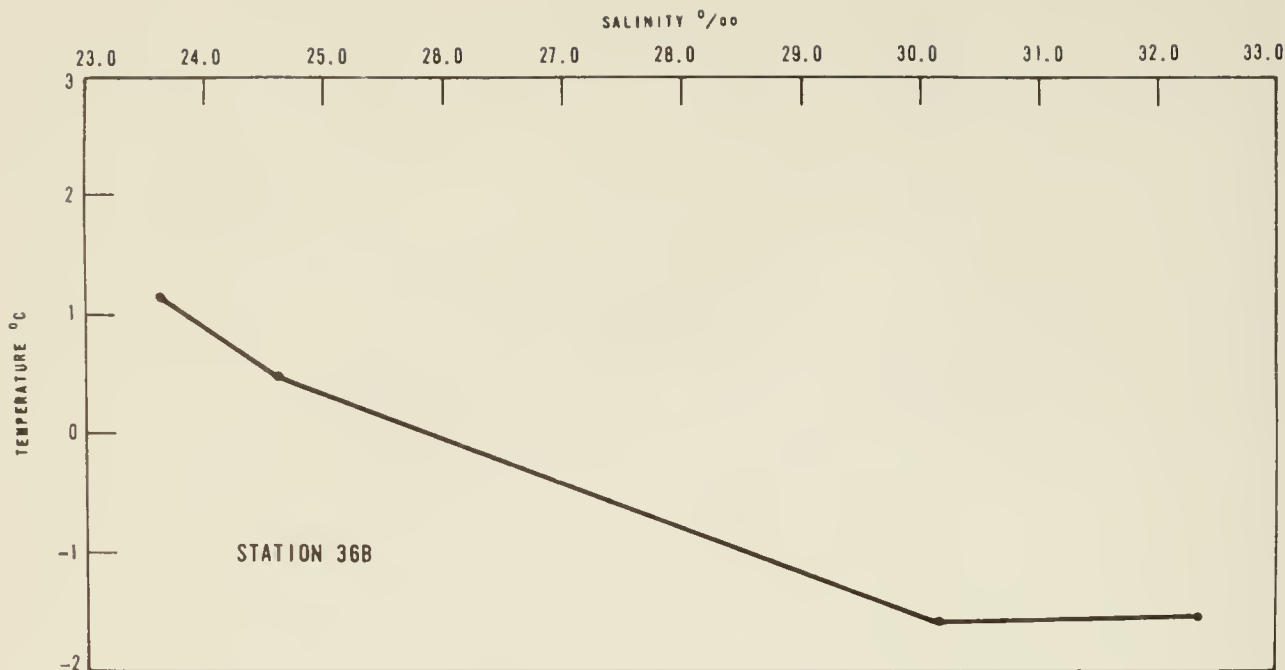


Figure 71. T-S Plot, Station 36B.

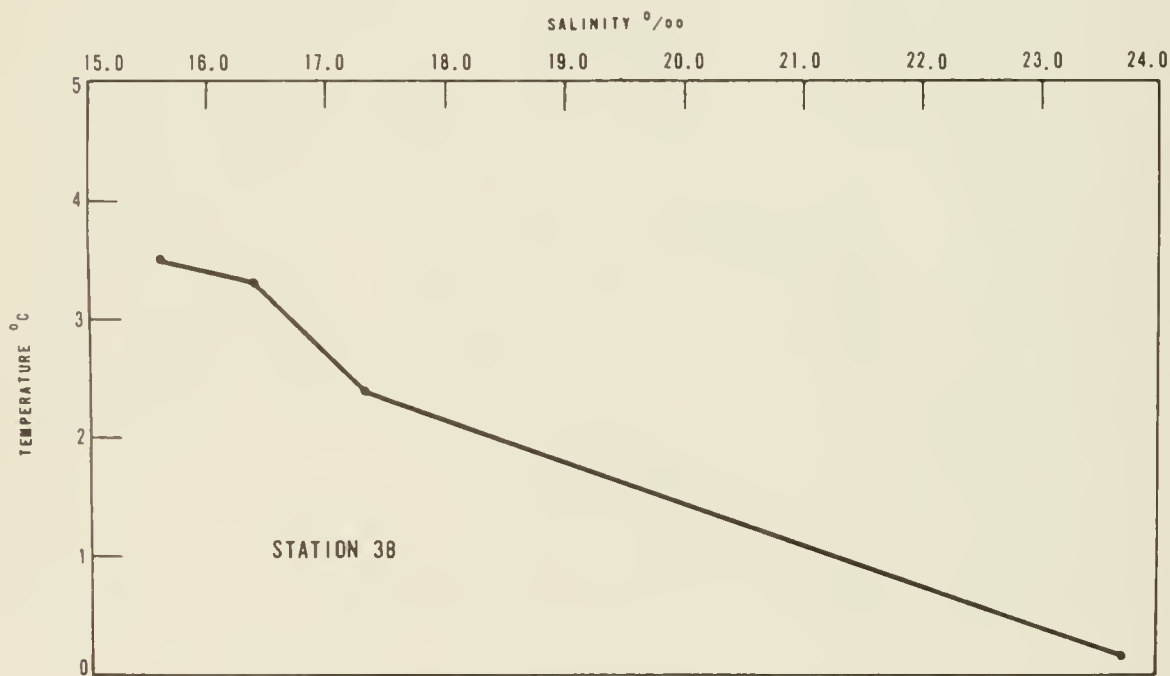


Figure 72. T-S Plot, Station 38.

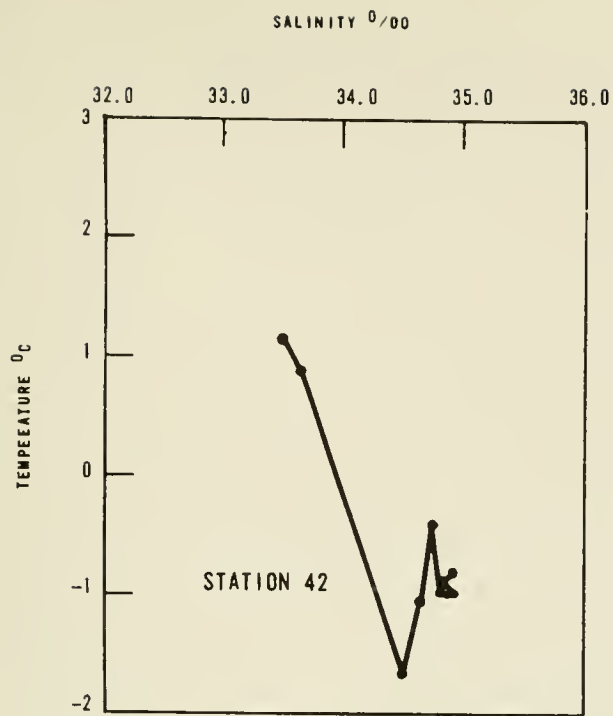


Figure 73. T-S Plot, Station 42.

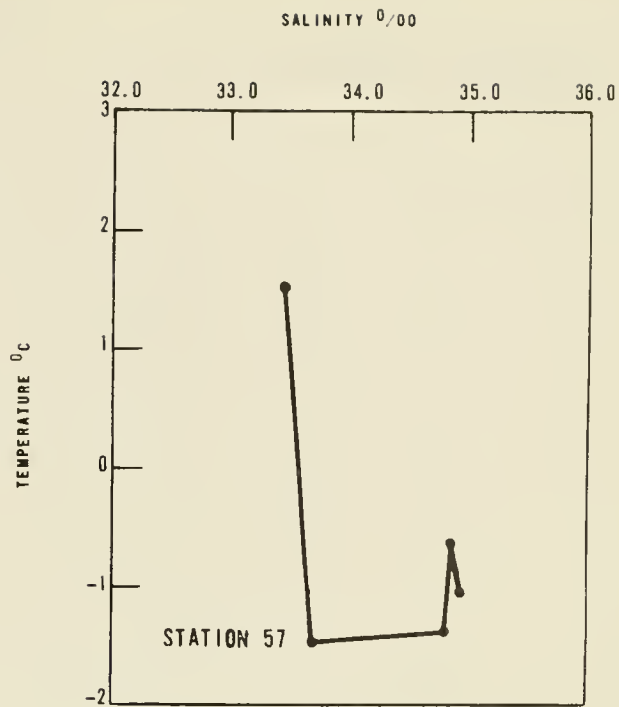


Figure 74. T-S Plot, Station 57.

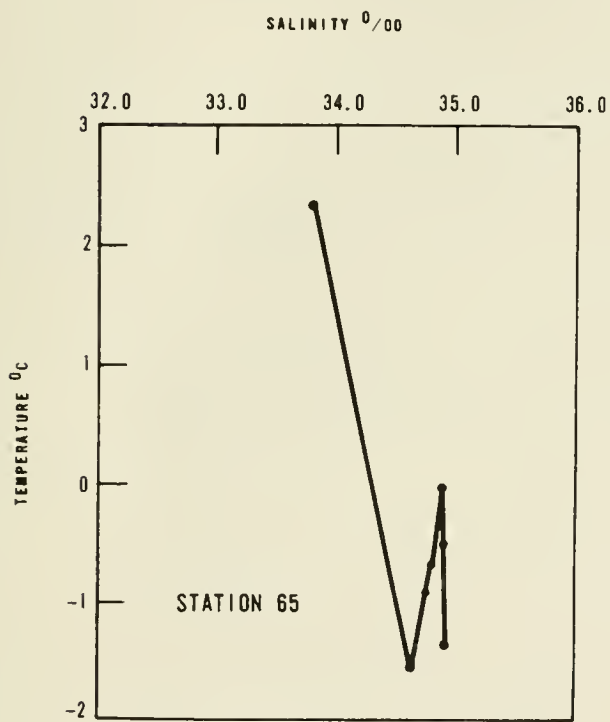


Figure 75. T-S Plot, Station 65.

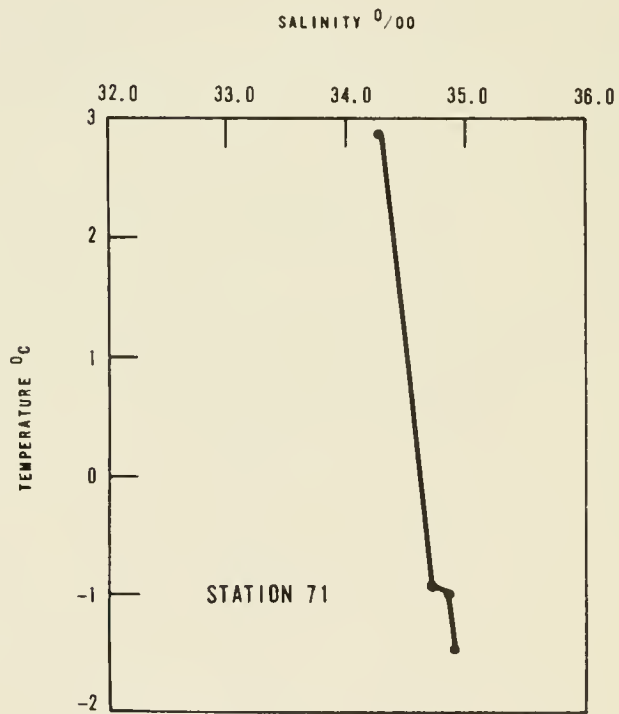


Figure 76. T-S Plot, Station 71.

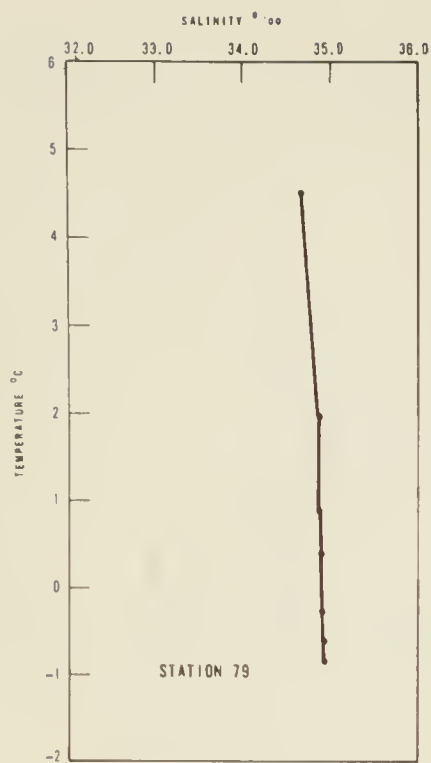


Figure 77. T-S Plot, Station 79.

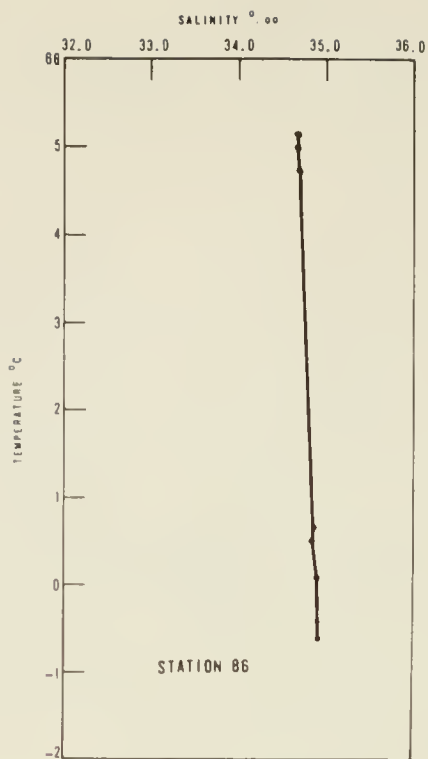


Figure 78. T-S Plot, Station 86.

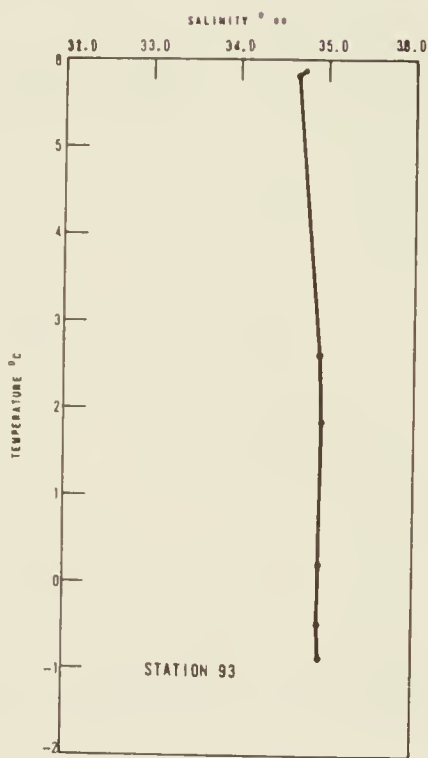


Figure 79. T-S Plot, Station 93.

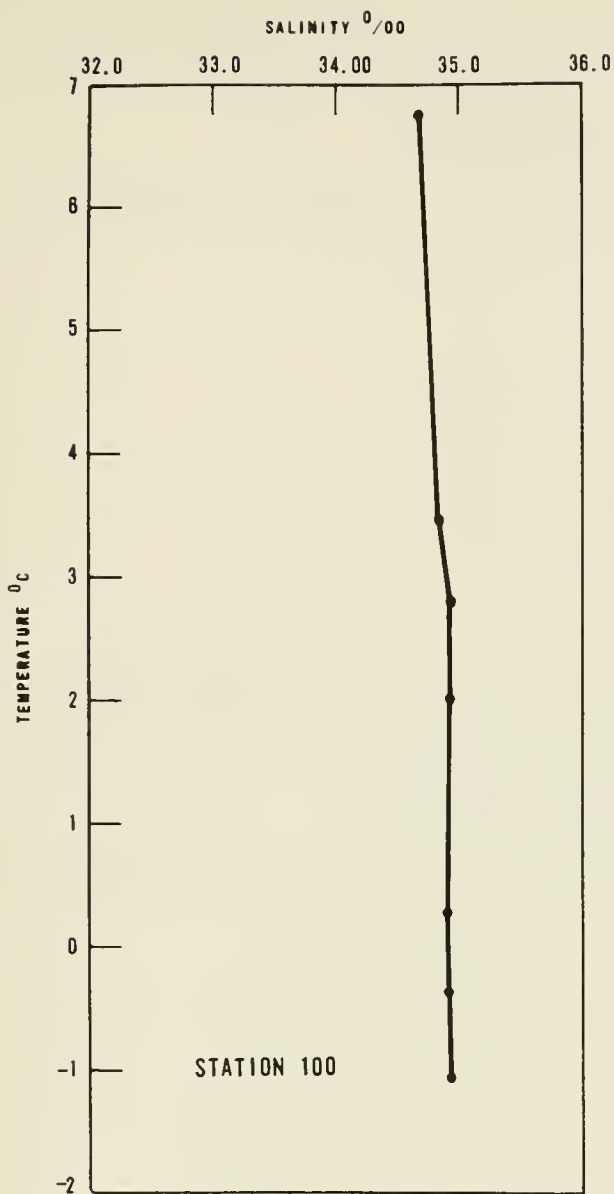


Figure 80. T-S Plot, Station 100.

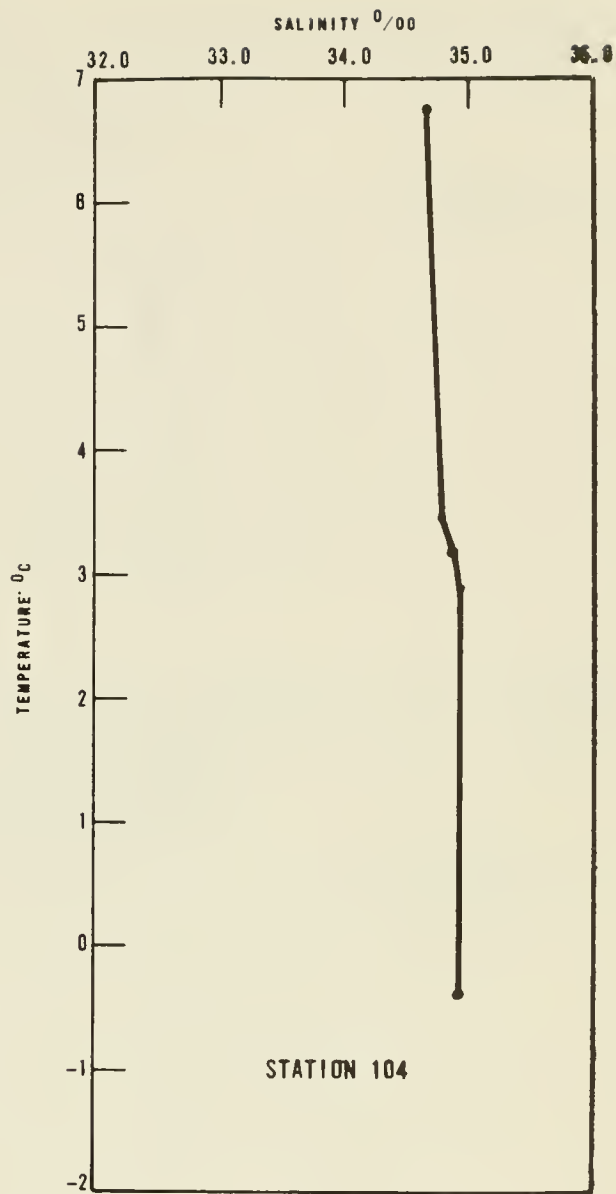


Figure 81. T-S Plot, Station 104.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY HR/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		HODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	165	ED	73495N	018570E	287	38	08	17	151	1967		001	0248	02	21	1			45	X	9	0001
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
06	10	00	500	025	122	119	3	09														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - dl/l	TOTAL-P µg - dl/l	ND ₂ -N µg - dl/l	ND ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S CCT					
		STD	0000	0553	3464	2735	0007360	0000	14727	738												
		OBS	0000	0553	34641	2735			14727	738												
151		OBS	0005	0541	34635	2736			14723	746												
		STD	0010	0512	3473	2747	0006261	0007	14713	745												
151		OBS	0010	0512	34727	2747			14713	745												
		STD	0020	0494	3475	2751	0005901	0013	14708	758												
151		OBS	0025	0471	34767	2755			14699	760												
		STD	0030	0403	3480	2765	0004580	0018	14672	750												
		STD	0050	0214	3491	2791	0002100	0025	14596	721												
151		OBS	0050	0214	34907	2791			14596	721												
		STD	0075	0170	3495	2797	0001490	0029	14581	712												
151		OBS	0075	0170	34945	2797			14581	712												
		STD	0100	0178	3498	2800	0001274	0033	14589	705												
151		OBS	0100	0178	34983	2800			14589	705												
		STD	0125	0146	3498	2802	0001056	0036	14579	710												
		STD	0150	0127	3498	2803	0000937	0038	14575	715												
151		OBS	0151	0126	34981	2803			14575	715												
		STD	0200	0126	3498	2804	0000931	0043	14583	709												
151		OBS	0201	0126	34983	2804			14583	709												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY HR/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		HODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311	165	ED	75512N	030330E	285	50	08	18	095	1967		002	0323	03	02	1			45	X	9		0002
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS CODE	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
06	14	00	500	024	072	061	4	10															
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P pg - dl/l	TOTAL-P pg - dl/l	ND ₂ -N ug - dl/l	ND ₃ -N ug - dl/l	SiO ₄ -Si ug - dl/l	pH	3 CCT						
		STD	0000	0587	3486	2748	0006122	0000	14744	715													
095		OBS	0000	0587	34860	2748			14744	715													
095		OBS	0005	0564	34890	2751			14744	717													
		STD	0010	0582	3490	2752	0005800	0006	14744	712													
095		OBS	0010	0582	34897	2752			14744	712													
		STD	0020	0525	3496	2764	0004675	0011	14723	704													
		STD	0030	0473	3500	2773	0003809	0015	14704	696													
095		OBS	0034	0454	35016	2776			14697	693													
		STD	0050	0380	3504	2786	0002567	0022	14669	708													
095		OBS	0058	0356	35045	2789			14660	713													
		STD	0075	0344	3505	2791	0002137	0028	14658	714													
095		OBS	0082	0338	35053	2792			14657	714													
		STD	0100	0316	3506	2794	0001673	0033	14650	710													
095		OBS	0107	0309	35056	2794			14648	709													
		STD	0125	0297	3506	2795	0001727	0037	14646	708													
		STD	0150	0278	3506	2797	0001582	0041	14642	707													
095		OBS	0155	0274	35055	2797			14641	707													
		STD	0200	0231	3505	2801	0001238	0048	14630	704													
095		OBS	0205	0223	35050	2801			14627	704													
		STD	0250	0114	3501	2807	0000657	0053	14586	704													
095		OBS	0282	0001	34971	2810			14540	704													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDIC	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE
311165	ED		76540N	045550E		284	65	08	19	039	1967		003		0272	02	99	1		47	X 9		0003
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB											
						05	21	00	500	995	022	022							0	10			
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ ρ DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - σ _t /l	TOTAL-P μg - σ _t /l	NO ₃ -N μg - σ _t /l	NO ₃ -N μg - σ _t /l	SiO ₄ -Si μg - σ _t /l	pH	S C				
		STD	0000	0172	3366	2694	0011224		0000		14552	798											
	040	OBS	0000	0172	33659	2694					14552	798											
	040	OBS	0005	0171	33665	2695					14552	795											
	040	OBS	0009	0156	33718	2700					14547	801											
		STD	0010	0156	3374	2702	0010504		0011		14548	802											
		STD	0020	0158	3400	2722	0008547		0020		14554	809											
	040	OBS	0024	0159	34105	2731					14556	812											
		STD	0030	0034	3427	2752	0005740		0028		14503	789											
	040	OBS	0047	-0164	34628	2789					14419	752											
		STD	0050	-0141	3466	2791	0002012		0035		14431	755											
	040	OBS	0071	-0049	34833	2802					14480	769											
		STD	0075	-0060	3484	2803	0000932		0039		14476	768											
	040	OBS	0095	-0094	34857	2805					14463	762											
		STD	0100	-0086	3486	2805	0000564		0041		14468	760											
		STD	0125	-0058	3490	2807	0000475		0042		14486	752											
	040	OBS	0144	-0050	34912	2808					14493	749											
		STD	0150	-0058	3491	2808	0000371		0043		14490	750											
	040	OBS	0191	-0076	34923	2810					14489	750											
		STD	0200	-0071	3494	2811	0000096		0045		14493	744											
	040	OBS	T0215	-0057	34967	2813					14502	715											

REFERENCE CTRY CODE	SHIP ID. NO.	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDIC	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311165	ED	77218N	059486E		283	79	08	19	197	1967	004	0288	02	99	2			10	X 9		0004
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
					05	10	00	500	037	017	017	4	10								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	S C			
		STD	0000	0154	3319	2658	0014664		0000	14537	801										
	197	OBS	0000	0154	33190	2658				14537	801										
	197	OBS	0005	0154	33190	2658				14538	803										
		STD	0010	0151	3320	2659	0014570		0015	14538	815										
	197	OBS	0010	0151	33200	2659				14538	815										
		STD	0020	-0020	3409	2740	0006646		0025	14474	853										
	197	OBS	0024	-0069	34339	2763				14456	858										
		STD	0030	-0104	3442	2770	0003982		0031	14442	828										
	197	OBS	0048	-0141	34616	2788				14430	760										
		STD	0050	-0128	3463	2788	0002284		0037	14437	755										
	197	OBS	0073	-0028	34762	2795				14489	720										
		STD	0075	-0025	3477	2795	0001627		0042	14491	720										
	197	OBS	0098	-0011	34817	2798				14502	717										
		STD	0100	-0017	3482	2799	0001283		0046	14499	718										
		STD	0125	-0072	3482	2802	0001022		0048	14478	728										
	197	OBS	0146	-0098	34843	2804				14470	730										
		STD	0150	-0097	3485	2805	0000682		0051	14471	728										
	197	OBS	0194	-0084	34929	2811				14485	716										
		STD	0200	-0083	3494	2812	0000042		0052	14487	718										
	197	OBS	T0247	-0073	34951	2812				14500	732										

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
311	165	ED	77276N	075280E	281	75	08	20	123	1967	005	0227	02	00	0			10	X	9		0005
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						06	13	00	500		075	017					017	6	09			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C					
		STD	0000	-0081	3129	2517	0028054	0000	14404	877												
124		OBS	0000	-0081	31292	2517			14404	877												
124		OBS	0005	-0082	31293	2517			14404	882												
		STD	0010	-0094	3142	2527	0027065	0028	14401	882												
124		OBS	0010	-0094	31415	2527			14401	882												
		STD	0020	-0146	3365	2709	0009758	0046	14410	823												
124		OBS	0025	-0164	34417	2772			14413	802												
		STD	0030	-0164	3447	2776	0003411	0053	14414	798												
		STD	0050	-0165	3464	2790	0002094	0058	14420	784												
124		OBS	0051	-0165	34645	2791			14420	783												
		STD	0075	-0164	3472	2796	0001510	0063	14425	781												
124		OBS	0076	-0164	34718	2797			14425	781												
		STD	0100	-0155	3475	2799	0001252	0066	14434	778												
124		OBS	0101	-0156	34752	2799			14434	778												
		STD	0125	-0152	3478	2801	0001040	0069	14440	774												
		STD	0150	-0147	3481	2803	0000831	0071	14447	769												
124		OBS	0153	-0146	34809	2803			14448	768												
		STD	0200	-0135	3485	2806	0000517	0075	14462	753												
124		OBS	0204	-0134	34855	2807			14463	751												

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
311165	ED	78338N	085220E	280	85	08	21	083	1967		006		0086	01	00	0				6	2		0006			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						05	12	33	503	140	022	011	6	00												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C									
		STD	0000	-0165	3193	2570	0022978	0000	14372	923																
084		OBS	0000	-0168	31926	2570			14372	923																
084		OBS	0005	-0173	32541	2620			14379	928																
		STD	0010	-0174	3254	2620	0016223	0021	14379	930																
084		OBS	0010	-0174	32541	2620			14379	930																
		STD	0020	-0175	3288	2648	0015606	0038	14385	879																
084		OBS	0025	-0175	33072	2663			14389	855																
		STD	0030	-0173	3340	2690	0011604	0051	14395	824																
		STD	0050	-0169	3430	2762	0004722	0067	14413	745																
084		OBS	0050	-0160	34296	2762			14413	745																
		STD	0075	-0169	3442	2773	0003741	0078	14419	743																
084		OBS	0075	-0169	34422	2773			14419	743																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER				
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
311165	EO		77498N	087100E		280	77	08	23	036	1967		007		0132	01	00	0			5 6		0007			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						05	09	30	S05		170	000					-006	6	08							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - μl/l	TOTAL-P μg - μl/l	NO ₂ -N μg - μl/l	NO ₃ -N μg - μl/l	SiO ₄ -Si μg - μl/l	pH	S C								
		STD	0000	-0166	3166	2549	0025030		0000	14369	916															
036		OBS	0000	-0166	31660	2549				14369	916															
036		OBS	0005	-0172	32213	2594				14375	922															
		STD	0010	-0172	3228	2599	0020220		0023	14376	925															
036		OBS	0010	-0172	32282	2599				14376	925															
		STD	0020	-0171	3236	2605	0019635		0043	14379	919															
036		OBS	0025	-0171	32395	2608				14381	916															
		STD	0030	-0163	3291	2650	0015392		0060	14393	859															
		STD	0050	-0141	3427	2760	0004993		0080	14426	713															
036		OBS	0050	-0141	34271	2760				14426	713															
		STD	0075	-0141	3435	2766	0004406		0092	14431	717															
036		OBS	0075	-0141	34346	2766				14431	717															
		STD	0100	-0142	3439	2769	0004069		0103	14435	708															
036		OBS	T0100	-0142	34368	2769				14435	708															
		STD	0125	-0144	3444	2773	0003652		0112	14439	714															
036		OBS	T0136	-0146	34460	2775				14440	721															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCH	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT				
311165	EO		77020N	081280E		280	71	08	24	153	1967		008		0042	00	00	0			5 8		0008				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
						06	10	33	S08		225	022					011	7	09								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. μ . $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μ g - μ l/l	TOTAL-P μ g - μ l/l	NO ₂ -N μ g - μ l/l	NO ₃ -N μ g - μ l/l	SiO ₄ -Si μ g - μ l/l	pH	S C										
		STD	0000	-0141	2932	2359	0043140	0000	14348	889																	
153		OBS	0000	-0141	29316	2359			14348	889																	
153		OBS	0005	-0151	29835	2401			14351	884																	
		STD	0010	-0158	3054	2458	0033662	0038	14359	856																	
153		OBS	0010	-0158	30540	2458			14359	856																	
153		OBS	0015	-0160	31179	2510			14367	851																	
		STD	0020	-0159	3277	2639	0016485	0063	14391	798																	
153		OBS	0020	-0159	32770	2639			14391	798																	
153		OBS	0025	-0157	33203	2674			14399	760																	
		STD	0030	-0150	3341	2690	0011560	0077	14406	743																	
153		OBS	0030	-0150	33413	2690			14406	743																	
153		OBS	0035	-0150	33428	2692			14407	742																	
153		OBS	0040	-0150	33436	2692			14408	743																	

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MOON PHASE	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE		CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA	TYPE	AMT					
311165	ED		78400N	071180E		281	81	08	25	085	1967		009	0484	05	00	0			70	6	8		0009	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						06	11	27	510	301			7	12											
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C								
		STD	0000	-0130	3167	2549	0025048	0000	14386	885															
	086	OBS	0000	-0130	31667	2549			14386	885															
	086	OBS	0005	-0152	31807	2560			14378	897															
		STD	0010	-0148	3305	2661	0014344	0020	14399	969															
	086	OBS	0010	-0148	33053	2661			14399	969															
		STD	0020	-0164	3372	2716	0009174	0031	14402	869															
	086	OBS	0024	-0169	33924	2732			14403	839															
		STD	0030	-0172	3410	2747	0006230	0039	14405	817															
	086	OBS	0049	-0178	34478	2777			14411	772															
		STD	0050	-0178	3448	2778	0003287	0049	14411	772															
	086	OBS	0074	-0174	34569	2785			14418	766															
		STD	0075	-0173	3457	2785	0002595	0056	14419	766															
	086	OBS	0099	-0142	34645	2790			14439	762															
		STD	0100	-0140	3465	2790	0002070	0062	14440	762															
		STD	0125	-0101	3471	2794	0001742	0067	14463	763															
		STD	0150	-0071	3477	2797	0001441	0071	14482	764															
	086	OBS	0150	-0071	34765	2797			14482	764															
	086	OBS	0199							743															
		STD	0200	-0082	3480	2800	0001113	0077	14486	743															
		STD	0250	-0090	3484	2804	0000760	0082	14491	742															
	086	OBS	0296	-0094	34867	2806			14497	741															
		STD	0300	-0094	3487	2806	0000515	0085	14498	741															
		STD	0400	-0094	3493	2811	0000025	0088	14515	746															
	086	OBS	0402	-0094	34930	2811			14515	746															
	086	OBS	0472	-0103	34962	2814			14523	737															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SQUAT DEPTH	MARS SQUARE				STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			CLOUD CODES		NOOC STATION NUMBER								
CITY CODE	IO. NO.					10"	1'	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER			SEA	WEA- THER CODE	TYPE	AMT										
311165	ED		80250N	072190E		929	02	08	26	065	1967		010		0556	05	00	0			05	9	8	0010								
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VTL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB																				
						00	11	00	500		209	006					006	5	12													
MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C														
		STD	0000	-0164	3107	2501	0029548		0000	14362	931																					
066		OBS	0000	-0164	31074	2501				14362	931																					
066		OBS	0005	-0176	32555	2621				14377	927																					
		STD	0010	-0176	3258	2623	0017919		0024	14379	924																					
066		OBS	0010	-0176	32580	2623				14379	924																					
		STD	0020	-0175	3264	2628	0017489		0041	14381	931																					
066		OBS	0025	-0175	32663	2630				14383	934																					
		STD	0030	-0176	3301	2658	0014595		0057	14388	915																					
		STD	0050	-0181	3400	2739	0006948		0079	14403	852																					
066		OBS	0050	-0181	34002	2739				14403	852																					
		STD	0075	-0185	3436	2768	0004205		0093	14410	797																					
066		OBS	0075	-0185	34356	2768				14410	797																					
		STD	0100	-0174	3451	2780	0003016		0102	14422	776																					
066		OBS	0100	-0174	34513	2780				14422	776																					
		STD	0125	-0122	3460	2786	0002504		0109	14452	763																					
		STD	0150	-0096	3467	2790	0002059		0115	14469	750																					
066		OBS	0151	-0095	34675	2791				14470	749																					
		STD	0200	-0119	3475	2798	0001341		0123	14468	768																					
066		OBS	T0203	-0120	34753	2798				14468	769																					
		STD	0250	-0118	3479	2801	0001021		0129	14477	764																					
		STD	0300	-0113	3483	2804	0000728		0133	14488	758																					
066		OBS	0300	-0113	34829	2804				14488	758																					
		STD	0400	-0094	3492	2810	0000108		0138	14515	742																					
066		OBS	T0400	-0094	34918	2810				14515	742																					
		STD	0500	-0100	3496	2814	-0000267		0137	14529	742																					
066		OBS	T0539	-0109	34960	2815				14532	742																					

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	ED		81265N	078170E		929	18	08	27	039	1967		011	0165	02	00	0			71	X	9	0011
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. 1m	DIR.	SPEED OF FORCE	MBAR	MBAR	DRY BULB	WET BULB										
									23	S14	093	-007	-007	1	09								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C
		STD	0000	-0174	3340	2690	0011663	0000	14389	860							
	040	OBS	0000	-0174	33395	2690			14389	860							
	040	OBS	0005	-0172	33869	2728			14398	852							
		STD	0010	-0183	3388	2729	0007931	0010	14394	852							
	040	OBS	0010	-0183	33877	2729			14394	852							
		STD	0020	-0182	3388	2729	0007902	0018	14396	852							
	040	OBS	0026	-0182	33882	2729			14397	852							
		STD	0030	-0178	3405	2743	0006600	0025	14402	814							
		STD	0050	-0159	3463	2789	0002188	0034	14422	699							
	040	OBS	0051	-0158	34653	2791			14423	697							
		STD	0075	-0135	3476	2799	0001255	0038	14440	748							
	040	OBS	0077	-0134	34766	2800			14440	750							
		STD	0100	-0121	3480	2802	0000988	0041	14451	734							
	040	OBS	0103	-0120	34805	2802			14452	734							
		STD	0125	-0119	3481	2803	0000909	0043	14456	750							
	040	OBS	T0128	-0119	34812	2803			14457	751							
		STD	0150	-0119	3481	2803	0000878	0045	14460	750							
	040	OBS	T0165	-0119	34813	2803			14463	739							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		72243N	056307E		283	26	08	31	150	1967		001	0300	03	08	2				6	7	0012
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. 1m	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
						06	14	00	500	258	039	006	7	10									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C
		STD	0000	0282	3161	2522	0027583	0000	14572	807							
	150	OBS	0000	0282	31607	2522			14572	807							
	150	OBS	0005	0171	32046	2565			14530	858							
		STD	0010	0010	3291	2644	0016011	0022	14470	872							
	150	OBS	0010	0010	32908	2644			14470	872							
		STD	0020	-0119	3389	2728	0007996	0034	14426	853							
	150	OBS	0025	-0163	34221	2756			14410	843							
		STD	0030	-0168	3425	2759	0005089	0040	14409	829							
		STD	0050	-0179	3437	2769	0004128	0050	14409	785							
	150	OBS	0050	-0179	34370	2769			14409	785							
		STD	0075	-0175	3447	2777	0003342	0059	14417	760							
	150	OBS	0075	-0175	34472	2777			14417	760							
		STD	0100	-0170	3453	2781	0002897	0067	14424	749							
	150	OBS	0100	-0170	34530	2781			14424	749							
		STD	0125	-0170	3457	2785	0002577	0074	14429	746							
		STD	0150	-0170	3461	2788	0002257	0080	14433	736							
	150	OBS	0152	-0170	34615	2788			14434	735							
		STD	0200	-0166	3467	2793	0001783	0090	14444	698							
	150	OBS	T0203	-0166	34673	2793			14445	696							
		STD	0250	-0166	3471	2796	0001453	0098	14453	674							
	150	OBS	T0281	-0169	34729	2798			14457	667							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MD		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE
311165		EW	72090N	057527E	283	27	08	31	185	1967	002	0245	02	09	2			6	8	0013		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)		DRY BULB	WET BULB													
					03	S05		256	039	022	7	09										
MESSAGE TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DTN. M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	STATION NUMBER
			STD	0000	0594										749							
185			OBS	0000	0594										749							
185			OBS	0005	0575	31024	2447						14689		771							
185			OBS	0009	0469	31542	2499						14653		887							
			STD	0010	0418	3175	2521		0027669				14634		881							
			STD	0020	-0000	3348	2690		0011595				14475		827							
185			OBS	0025	-0143	34082	2744						14418		808							
			STD	0030	-0153	3414	2749		0005973				14415		804							
			STD	0050	-0178	3433	2765		0004438				14409		785							
185			OBS	0051	-0179	34339	2766						14409		784							
			STD	0075	-0175	3442	2773		0003740				14416		750							
185			OBS	0076	-0175	34428	2773						14416		749							
			STD	0100	-0170	3452	2780		0003003				14424		747							
185			OBS	0101	-0170	34520	2781						14424		746							
			STD	0125	-0169	3456	2784		0002656				14429		721							
			STD	0150	-0168	3461	2788		0002263				14434		671							
185			OBS	0153	-0168	34611	2788						14435		663							
			STD	0200	-0166	3469	2794		0001631				14445									
185			OBS	T0224	-0165	34722	2797						14450									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE COORDIN	STATION TIME GMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR	1/10						
311165	EW	71560N	059190E	283	19	08	31	217	1967	003	0137	01	08	1			5 8	0014
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					02	S07	253	046	031	7	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	STATION NUMBER	
		STD	0000	0717	2984	2337	0045242	0000	14730	715								
	217	OBS	0000	0717	29842	2337			14730	715								
	217	OBS	0005	0716	29842	2337			14730	716								
		STD	0010	0721	2995	2345	0044486	0045	14734	720								
	217	OBS	0010	0721	29951	2345			14734	720								
		STD	0020	0283	3286	2622	0018113	0076	14593	780								
	217	OBS	0025	0126	33854	2713			14536	601								
		STD	0030	0086	3394	2722	0008544	0089	14522	807								
		STD	0050	-0035	3420	2750	0005917	0104	14474	822								
	217	OBS	0050	-0035	34202	2750			14474	822								
		STD	0075	-0098	3435	2765	0004491	0117	14451	819								
	217	OBS	0075	-0098	34354	2765			14451	819								
		STD	0100	-0110	3446	2774	0003628	0127	14451	806								
		STD	0125	-0122	3453	2780	0003040	0135	14451	784								
	217	OBS	0130	-0124	34540	2791			14451	778								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER							
311165	EW	71400N	060387E	282	10	09 01 014	1967	004		0072	01	00	0		6 6	0015	
				WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB							
							21	S02	271	047	028	7	05				
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	STATION NUMBER
		STD	0000	0634	2909	2288	0049933	0000	14687	729							
	014	OBS	0000	0634	29086	2288			14687	729							
	014	OBS	0005	0689	29647	2325			14717	724							
		STD	0010	0673	3021	2371	0041970	0046	14719	726							
	014	OBS	0010	0673	30209	2371			14719	726							
		STD	0020	0072	3267	2621	0016133	0076	14497	802							
	014	OBS	0025	-0153	33622	2707			14407	829							
		STD	0030	-0153	3372	2716	0005174	0090	14409	826							
		STD	0050	-0151	3413	2748	0006052	0105	14419	815							
	014	OBS	0065	-0150	34433	2773			14426	803							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311165	EW	71285N	062222E			282	12	09	01	048	1967	005	0140	01	00	0				6	6	0016				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						09	10	21	S02		275	061				037	8	08								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C									
		STD	0000	0630	2632	2071	0070713	0000	14649	751																
048		OBS	0000	0630	26318	2071			14649	751																
048		OBS	0005	0620	26847	2113			14653	760																
		STD	0010	0270	2958	2361	0042907	0057	14541	866																
048		OBS	0010	0270	29575	2361			14541	866																
		STD	0020	-0040	3202	2574	0022591	0090	14436	892																
048		OBS	0025	-0145	32909	2649			14400	896																
		STD	0030	-0155	3318	2672	0013337	0108	14400	876																
		STD	0050	-0177	3397	2736	0007219	0128	14404	818																
048		OBS	0050	-0177	33968	2736			14404	818																
		STD	0075	-0166	3424	2758	0005168	0144	14418	792																
048		OBS	0075	-0166	34237	2758			14418	792																
		STD	0100	-0147	3439	2769	0004037	0155	14433	755																
048		OBS	0100	-0147	34390	2769			14433	755																
		STD	0125	-0162	3453	2781	0002937	0164	14432	720																
048		OBS	0125	-0162	34526	2781			14432	720																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311165	EW	71090N	063240E			282	13	09	01	078	1967	006	0146	01	00	0				6	6	0017				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
						10	10	10	S05	284	044	036	8	08												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	S C									
		STD	0000	0597	2667	2102	0067694	0000	14640	756																
077		OBS	0000	0597	26673	2102			14640	756																
077		OBS	0005	0536	27930	2207			14632	773																
		STD	0010	0515	2810	2223	0056103	0062	14626	879																
077		OBS	0010	0515	28102	2223			14626	879																
		STD	0020	0011	3150	2530	0026772	0103	14453	875																
077		OBS	0025	-0156	32697	2633			14392	870																
		STD	0030	-0162	3302	2659	0014549	0124	14395	851																
077		OBS	0049	-0176	33857	2727			14403	813																
		STD	0050	-0176	3386	2727	0008051	0147	14403	816																
077		OBS	0074	-0174	34039	2742			14411	845																
		STD	0075	-0174	3405	2743	0006582	0165	14411	842																
077		OBS	0099	-0165	34299	2763			14423	773																
		STD	0100	-0165	3431	2763	0004597	0179	14423	771																
		STD	0125	-0163	3447	2776	0003365	0189	14431	731																
077		OBS	10141	-0161	34531	2781			14435	721																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT							
311165	EW	71430N	066290E			282	16	09	01	135	1967		007	0119	01	06	2				5	8	0018						
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB																
								08		503		290		042		032		8		07									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	S C									
		STD	0000	0522	2726	2156		0062562		0000		14617	754																
135		OBS	0000	0522	27255	2156						14617	754																
135		OBS	0005	0497	27368	2167						14608	763																
		STD	0010	0444	2761	2191		0059179		0061		14590	767																
135		OBS	0010	0444	27609	2191						14590	767																
		STD	0020	0015	3126	2511		0028625		0105		14451	866																
135		OBS	0025	-0129	32542	2619						14403	884																
		STD	0030	-0134	3276	2637		0016615		0127		14404	846																
		STD	0050	-0138	3350	2697		0010897		0155		14416	743																
135		OBS	0050	-0138	33502	2697						14416	743																
		STD	0075	-0101	3415	2749		0006040		0176		14447	728																
138		OBS	0075	-0101	34150	2749						14447	728																
		STD	0100	-0113	3433	2763		0004641		0189		14448	691																
138		OBS	0110	-0132	34396	2769						14442	670																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH MOUSE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																											
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT																												
311165	EW		72013N	065055E	282	25	09	01	167	1967		008		0161	01	00	1				5	8	0019																											
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mb)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th>SPEED OR FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td></td><td></td><td></td><td>11</td><td>513</td><td>288</td><td>U40</td><td>Q23</td><td>8</td><td>08</td><td></td></tr></table>																								WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB				11	513	288	U40	Q23	8	08	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																												
			11	513	288	U40	Q23	8	08																																									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OTN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	1 CC																																	
		STD	0000	0476	2726	2162	0061934	0000	14598	766																																								
167		OBS	0000	0476	27282	2162			14598	766																																								
167		OBS	0005	0474	27274	2162			14597	760																																								
		STD	0010	0481	2730	2163	0061844	0062	14600	774																																								
167		OBS	0010	0481	27300	2163			14600	774																																								
		STD	0020	0044	3100	2489	0050739	0108	14401	900																																								
167		OBS	0025	-0105	32288	2598			14411	933																																								
		STD	0030	-0126	3254	2619	0016325	0133	14405	898																																								
167		OBS	0049	-0170	33307	2682			14398	804																																								
		STD	0050	-0169	3333	2684	0012137	0163	14399	604																																								
167		OBS	0074	-0147	33867	2727			14421	772																																								
		STD	0075	-0145	3389	2729	0007687	0188	14423	760																																								
167		OBS	0098	-0114	34309	2762			14447	657																																								
		STD	0100	-0115	3431	2762	0004726	0204	14447	656																																								
		STD	0125	-0125	3437	2767	0004236	0215	14447	639																																								
167		OBS	T0147	-0134	34424	2772			14447	625																																								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH MOUSE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																												
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DR	HGT	PER		SEA	TYPE		AMT																											
311165	EW		72150N	063450E		282	23	09	01	201	1967		009		0033	01	15	2			5	8	0020																											
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mbars)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th>SPEED OR FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td></td><td></td><td></td><td>13</td><td>510</td><td>297</td><td>U49</td><td>U31</td><td>7</td><td>00</td><td></td></tr></table>																								WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB				13	510	297	U49	U31	7	00	
WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																												
			13	510	297	U49	U31	7	00																																									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-210°	Σ Δ D OTN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₂ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	1 CC																																	
		STD	0000	0488	2644	2095	0068390	0000	14592	760																																								
201		OBS	0000	0488	26443	2095			14592	760																																								
201		OBS	0005	0488	26441	2095			14592	776																																								
		STD	0010	0478	2791	2211	0057236	0063	14606	773																																								
201		OBS	0010	0478	27936	2211			14606	773																																								
		STD	0020	0031	3135	2517	0026006	0105	14400	892																																								
201		OBS	0025	-0123	32573	2622			14406	923																																								
		STD	0030	-0136	3278	2639	0016450	0128	14404	889																																								
		STD	0050	-0170	3347	2696	0011059	0155	14401	760																																								
201		OBS	0051	-0171	33497	2698			14401	764																																								
		STD	0075	-0168	3400	2738	0006980	0178	14413	756																																								
201		OBS	T0087	-0149	34132	2749			14426	745																																								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH MOUSE	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'APLS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																											
							10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT																										
311165	EW		72314N	062177E		282	22	09	01	229	1967		010		0031	01	15	2				6	8	0021																										
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mbars)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS. CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th>SPEED OR FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td></td><td></td><td></td><td>24</td><td>511</td><td>277</td><td>046</td><td>U34</td><td>7</td><td>06</td></tr></table>																									WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB				24	511	277	046	U34	7	06
WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																												
			24	511	277	046	U34	7	06																																									
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-210°	Σ Δ D OTN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₂ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	1 CC																																	
		STD	0000	0546	2811	2221	0050314	0000	14638	753																																								
229		OBS	0000	0546	28114	2221			14630	753																																								
229		OBS	0005	0556	28616	2259			14649	757																																								
		STD	0010	0611	2981	2347	0044254	0050	14666	743																																								
229		OBS	0010	0611	29809	2347			14668	743																																								
		STD	0020	0040	3243	2604	0019799	0082	14479	933																																								
229		OBS	0025	-0151	33347	2685			14404	984																																								
		STD	0030	-0155	3352	2699	0010726	0098	14405	930																																								
		STD	0050	-0162	3403	2741	0006781	0115	14412	807																																								
229		OBS	0050	-0162	34030	2741			14412	807																																								
		STD	0075	-0156	3427	2760	0004974	0130	14423	762																																								
229		OBS	0075	-0156	34266	2760			14423	762																																								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDECT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	72478N	060545E		282	20	09	02	015	1967		011	0143	01	15	2				718		0022
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB										
									24	S11	277		051	034	8	07							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	Si D ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C						
		STD	0000	0562	3041	2400	0039167	0000	14675	736													
016		OBS	0000	0562	30414	2400			14675	736													
016		OBS	0005	0363	31747	2526			14610	724													
		STD	0010	0307	3182	2537	0026155	0033	14586	732													
016		OBS	0010	0307	31822	2537			14588	732													
		STD	0020	-0017	3320	2668	0013657	0053	14463	810													
016		OBS	0026	-0144	33784	2720			14413	841													
		STD	0030	-0142	3389	2729	0007922	0063	14417	841													
		STD	0050	-0132	3428	2760	0004953	0076	14430	843													
016		OBS	0051	-0131	34293	2761			14431	843													
		STD	0075	-0134	3445	2774	0003631	0087	14436	816													
016		OBS	0087	-0135	34506	2778			14438	804													
		STD	0100	-0136	3453	2780	0003032	0095	14440	792													
		STD	0125	-0139	3456	2783	0002727	0102	14443	772													
016		OBS	T0139	-0140	34584	2785			14445	762													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDECT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	73030N	059272E		283	39	09	02	048	1967		012	0364	03	15	2			7	8	0023	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						06	24	14	S10	268	055	038	8	11									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C						
		STD	0000	0416	3166	2514	0028361	0000	14630	766													
049		OBS	0000	0416	31655	2514			14630	766													
049		OBS	0005	0218	32639	2609			14559	867													
		STD	0010	-0032	3364	2704	0010249	0019	14461	908													
049		OBS	0010	-0032	33638	2704			14461	908													
		STD	0020	-0128	3392	2731	0007738	0028	14422	885													
049		OBS	0025	-0161	34030	2741			14409	880													
		STD	0030	-0169	3408	2745	0006391	0035	14406	901													
		STD	0050	-0185	3423	2757	0005196	0047	14404	925													
049		OBS	0050	-0185	34229	2757			14404	925													
		STD	0075	-0173	3434	2766	0004367	0059	14416	818													
049		OBS	0075	-0173	34339	2766			14416	818													
		STD	0100	-0178	3444	2774	0003572	0069	14419	794													
049		OBS	0100	-0178	34439	2774			14419	794													
		STD	0125	-0176	3452	2781	0002942	0077	14425	770													
		STD	0150	-0175	3459	2786	0002410	0084	14431	762													
049		OBS	0150	-0175	34588	2786			14431	762													
		STD	0200	-0174	3466	2792	0001805	0094	14441	728													
049		OBS	T0200	-0174	34664	2792			14441	728													
		STD	0250	-0174	3471	2796	0001428	0102	14450	716													
049		OBS	T0295	-0173	34750	2799			14459	681													
		STD	0300	-0173	3475	2799	0001091	0109	14459	680													
049		OBS	T0348	-0167	34779	2802			14470	624													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT					
311165	EW		73170N	058000E		283	38	09	02	080		1967		013		0291	03	12	2				7	8		0024	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																
						07	19	12	S09	240	064	046	7	10													

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	Si O ₄ -Si $\mu g - \text{at/l}$	pH	S CCT
		STD	0000	0263	3159	2522	0027560	0000	14564	843							
	080	OBS	0000	0263	31591	2522			14564	843							
	080	OBS	0005	0227	31933	2552			14553	852							
		STD	0010	0054	3256	2614	0018857	0023	14485	900							
	080	OBS	0010	0054	32563	2614			14485	900							
		STD	0020	-0113	3376	2717	0009011	0037	14427	869							
	080	OBS	0025	-0169	34172	2752			14407	863							
		STD	0030	-0172	3421	2756	0005386	0044	14407	890							
		STD	0050	-0179	3431	2764	0004558	0054	14408	924							
	080	OBS	0050	-0179	34314	2764			14408	924							
		STD	0075	-0181	3439	2770	0003962	0065	14413	794							
	080	OBS	0075	-0181	34389	2770			14413	794							
		STD	0100	-0176	3448	2777	0003293	0074	14420	783							
	080	OBS	0101	-0176	34479	2777			14421	782							
		STD	0125	-0175	3453	2782	0002670	0082	14420	779							
		STD	0150	-0173	3458	2786	0002477	0088	14431	766							
	080	OBS	0152	-0173	34584	2786			14432	765							
		STD	0200	-0167	3467	2793	0001780	0099	14444	713							
	080	OBS	T0203	-0167	34673	2793			14444	710							
		STD	0250	-0168	3472	2797	0001370	0107	14453	677							
	080	OBS	T0276	-0171	34734	2798			14456	666							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT					
311165	EW		74060N	059510E		283	49	09	02	140		1967		014		0200	02	16	2				5	8	0025		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																
						06	19	12	S10	235	030	033	7	10													

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	Si O ₄ -Si $\mu g - \text{at/l}$	pH	S CCT
		STD	0000	0140	3173	2542	0025702	0000	14511	855							
	140	OBS	0000	0140	31727	2542			14511	855							
	140	OBS	0005	0130	31816	2549			14509	818							
		STD	0010	-0109	3379	2719	0008622	0017	14427	960							
	140	OBS	0010	-0109	33787	2719			14427	960							
		STD	0020	-0152	3408	2744	0006442	0025	14413	863							
	140	OBS	0025	-0167	34183	2753			14408	828							
		STD	0030	-0169	3422	2756	0005317	0031	14408	816							
		STD	0050	-0174	3435	2767	0004310	0040	14411	788							
	140	OBS	0050	-0174	34348	2767			14411	788							
		STD	0075	-0178	3442	2772	0003764	0050	14413	774							
	140	OBS	0076	-0178	34419	2773			14415	773							
		STD	0100	-0176	3447	2777	0003339	0059	14420	769							
	140	OBS	0101	-0176	34475	2777			14421	769							
		STD	0125	-0174	3452	2781	0002947	0067	14426	759							
		STD	0150	-0172	3458	2786	0002480	0074	14432	744							
	140	OBS	0153	-0172	34581	2786			14433	742							
		STD	0200	-0155	3467	2792	0001820	0085	14450	697							
	140	OBS	T0203	-0154	34682	2793			14451	692							
		STD	0250	-0157	3473	2797	0001316	0093	14458	647							
	140	OBS	T0250	-0157	34732	2797			14458	647							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT		
311165	EW	73550N	060580E			282	30	09	02	154	1967		015		0137	01	16	2				5	8		0026
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB													
								13		509	226	028	022	7	08										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C						
		STD	0000	0295	3051	2433		0036010	0000	14563	797														
154		OBS	0000	0295	30508	2433				14563	797														
154		OBS	0005	0200	31186	2494				14531	846														
		STD	0010	0004	3236	2600		0020171	0028	14460	944														
154		OBS	0010	0004	32360	2600				14460	944														
		STD	0020	-0110	3354	2699		0010707	0044	14425	942														
156		OBS	0025	-0150	33958	2735				14413	941														
		STD	0030	-0158	3401	2739		0006957	0052	14411	910														
		STD	0050	-0179	3421	2756		0005356	0065	14407	821														
156		OBS	0051	-0180	34215	2756				14407	816														
		STD	0075	-0181	3441	2772		0003601	0076	14415	786														
156		OBS	0076	-0181	34420	2773				14415	787														
		STD	0100	-0156	3452	2780		0003014	0085	14430	796														
156		OBS	0101	-0155	34523	2780				14431	796														
		STD	0125	-0173	3457	2785		0002568	0092	14427	782														
156		OBS	0126	-0175	34575	2785				14427	781														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER		
					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER	SEA		TYPE	AMT
311165	EW	73391N	062280E		282	32	09	02	183	1967		016	0117	01	17	3		5	8		0027
				WATER	WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB						WET BULB						
						19		513	226	044	037		7	07							
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	NOOC STATION NUMBER		
		STD	0000	0206	2920	2336		0045334		0000	14506	835									
184		OBS	0000	0206	29201	2336					14506	835									
184		OBS	0005	-0004	30461	2447					14429	899									
		STD	0010	-0104	3246	2612		0018999		0032	14411	969									
184		OBS	0010	-0104	32462	2612					14411	969									
		STD	0020	-0154	3357	2703		0010351		0047	14405	863									
184		OBS	0025	-0171	33957	2735					14403	827									
		STD	0030	-0172	3402	2740		0006846		0055	14404	826									
		STD	0050	-0174	3423	2757		0005215		0068	14410	821									
184		OBS	0051	-0174	34244	2758					14410	821									
		STD	0075	-0169	3444	2774		0003603		0079	14419	812									
186		OBS	0076	-0169	34447	2775					14419	811									
		STD	0100	-0168	3451	2780		0003056		0087	14425	794									
186		OBS	0101	-0168	34513	2780					14425	793									

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER					
					10'	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER	SEA		TYPE	AMT			
311165	EW	73230N	063560E		282	33	09	02	210	1967		017	0101	01	19	3			5	8		0028		
					WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		ORY BULB	WET BULB													
							19		513	234	047	041	7	05										
MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)		T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH					
		STD	0000		0268	2787	2226		0055845		0000	14516	823											
	211	OBS	0000		0268	27872	2226					14516	823											
	211	OBS	0005		0266	27929	2230					14516	825											
		STD	0010		0088	3017	2420		0037292		0047	14466	855											
		STD	0020		-0164	3342	2691		0011517		0071	14398	888											
	211	OBS	0020		-0164	33415	2691					14398	888											
		STD	0030		-0170	3377	2720		0008769		0081	14402	849											
	211	OBS	0046		-0175	34187	2754					14408	801											
		STD	0050		-0174	3420	2755		0005438		0095	14409	798											
		STD	0075		-0167	3429	2762		0004785		0108	14418	776											
	211	OBS	0094		-0161	34353	2767					14425	760											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSEN SQUARE		STATION TIME IGATI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER		DIR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	73068N	065260E		282	35	09	02	239	1967		018	0113	01	19	3			1	2	0029
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
									20	512	254	046	059	7	07							
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C					
		STD	0000	0406	2821	2242	0054298	0000	14560	786												
	239	OBS	0000	0406	28211	2242			14580	786												
	239	OBS	0005	0321	29336	2338			14559	822												
		STD	0010	0256	2975	2376	0041458	0048	14537	841												
	239	OBS	0010	0256	29753	2376			14537	841												
		STD	0020	-0060	3217	2587	0021371	0079	14429	824												
	239	OBS	0025	-0163	33023	2659			14394	816												
		STD	0030	-0151	3321	2674	0013116	0097	14403	804												
		STD	0050	-0132	3361	2722	0008584	0116	14423	777												
	239	OBS	0050	-0132	33806	2722			14423	777												
		STD	0075	-0172	3423	2757	0005213	0135	14415	796												
	239	OBS	0075	-0172	34229	2757			14415	796												
		STD	0100	-0165	3430	2762	0004711	0148	14423	779												
	239	OBS	0100	-0165	34295	2762			14423	779												

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
311165		EW	72490N	066520E	282	26	09	03	027	1967		019	0073	01	16	3				0	1		0030			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. IN	DIR.	SPEED OR FCFT		DRY BULB	WET BULB														
						6	19	18	509	258	051	044	8	05												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C									
		STD	0000	0435	2504	1989	0078592	0000	14551	789																
	27	OBS	0000	0435	25039	1989			14551	789																
	27	BS	0005	0435	25138	1989			14551	793																
		STD	0010	0250	2762	2227	0057637	0068	14506	825																
	27	OBS	0010	0250	27621	2227			14506	825																
		STD	0020	-0036	3133	2515	0027691	0111	14429	886																
	27	OBS	0025	-0138	32724	2634			14401	902																
		STD	0030	-0133	3291	2655	0025435	0133	14407	871																
		STD	0050	-0112	3367	271	0009672	0158	14431	749																
	27	OBS	0059	-0103	34213	2738			14441	694																

REF ID	D. NO	SHIP CODE	LATITUDE	LONGITUDE	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY		HR./10	CRUISE NO.			DIR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	24° 48' N	074° 20' E	282	27	09	03	048	1967	019	0055	01	16	3				0			0031
						WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IN	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						17	20	11	251	251	066	052	8	05								
MESSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · ml ⁻¹	TOTAL-P μg · ml ⁻¹	NO ₃ -N μg · ml ⁻¹	NO ₂ -N μg · ml ⁻¹	SiO ₄ -Si μg · ml ⁻¹	pH	S C					
		STD	0000	0371	2524	201	0076553	0000	14526	790												
248		OBS	0000	0371	25244	2010			14526	790												
		OBS	0005	0371	25259	1959			14517	797												
		STD	0010	0326	256	2061	0071044	0074	14517	809												
248		OBS	0010	0326	25649	2061			14517	809												
		STD	0020	-0024	3005	2479	0031012	0126	14428	859												
48		OBS	0025	-014	32585	2623			14398	864												
		STD	0030	-0137	326	264	0016315	0150	1444	855												
		STD	0050	-0124	3365	2709	0009819	0176	14425	682												
248		OBS	0050	-0124	33544	2709			14425	682												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311165	EW	73337N	069120E	282	39	09	03	099	1967		021		0018	00	18	3				0	2		0032
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
		12	04	18	S12	232	063	048	8					04									
MESSAGE TIME ° HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C				
		STD	0000	0492	0932	0743		0199780		0000	14373	836											
	099	OBS	0000	0492	09322	0743					14373	836											
	099	OBS	0005	0350	14333	1146					14375	773											
		STD	0010	-0092	2607	2096		0068258		0134	14328	700											
	099	OBS	0010	-0092	26071	2096					14328	706											
	099	OBS	0013	-0080	26323	2116					14338	661											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311165	EW		73500N	067520E	282	37	09	03	127	1967		022		0042	00	21	2			3	2	0033	
							WATER		WIND		AIR TEMP. °C		BARO- METER		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB	VIS. CODE									
							11	10	24	S13	232	063	048	8	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C					
		STD	0000	0389	2145	1708	0105661		0000	14484	822												
	127	OBS	0000	0389	21445	1708				14484	822												
	127	OBS	0005	0236	26938	2153				14490	832												
		STD	0010	0152	2682	2308	0048003		0077	14483	835												
	127	OBS	0010	0162	28817	2308				14483	835												
	127	OBS	0015	0077	29667	2380				14457	858												
		STD	0020	-0127	3248	2614	0018829		0110	14402	903												
	127	OBS	0020	-0127	32475	2614				14402	903												
	127	OBS	0025	-0156	32993	2657				14396	842												
		STD	0030	-0155	3326	2678	0012753		0126	14401	764												
	127	OBS	0030	-0155	33256	2678				14401	764												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT							
311165	EW		74095N	066220E		282	46	09	03	156	1967		023		0115	01	22	2				4	2		0034						
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
						COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE						DRY BULB		WET BULB											
										18		S10						235		045		040		8		07					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PD ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C										
		STD	0000	0197	2782	2226		0055049		0000		14463		827																	
	156	OBS	0000	0197	27815	2226						14483		827																	
	156	OBS	0005	0152	28886	2314						14479		846																	
		STD	0010	0037	3051	2450		0034460		0045		14449		878																	
		STD	0020	-0128	3285	2644		0015924		0070		14407		910																	
	156	OBS	0020	-0128	32853	2644						14407		910																	
		STD	0030	-0149	3311	2666		0013889		0085		14402		862																	
	156	OBS	0045	-0159	33474	2696						14405		795																	
		STD	0050	-0148	3356	2702		0010424		0110		14412		767																	
	156	OBS	0070	-0120	33989	2736						14435		696																	
		STD	0075	-0120	3411	2746		0006280		0130		14437		697																	
	156	OBS	0095	-0127	34671	2792						14445		703																	
		STD	0100	-0130																											
	156	OBS	0117	-0145																											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311165		EW	74245N	064530E	282	44	09	03 182	1964	024	024	0140	01	21	3			0		0035
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
					COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	(mb)	(mb)	DRY BULB	WET BULB								
								18	512	226	046	033	8	07						

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0162	2930	2351	0043657	0000	14489	824							
183		OBS	0000	0162	29361	2351			14489	822							
183		OBS	0005	0160	29384	2353			14489	833							
		STD	0010	0159	3009	2410	0038279	0041	14499	831							
183		OBS	0010	0159	30090	2410			14499	831							
		STD	0020	-0171	3231	2599	0020261	0070	14466	879							
183		OBS	0025	-0148	32104	2665			14402	887							
		STD	0030	-0149	3224	2680	0012508	0087	14405	859							
		STD	0050	-0151	3386	2726	0008145	0107	14415	770							
183		OBS	0050	-0151	33850	2726			14415	770							
		STD	0075	-0129	3418	2752	0005692	0125	14434	714							
183		OBS	0075	-0129	34183	2752			14434	714							
183		OBS	T0099	-0129	34269	2759			14439	708							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUST PMCT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10'	1"	MO	DAY	HR		10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SIA	TYPE		AMT
311165	EW	74410N	063210E		282	43	09	03	210	1967		025		079	01	21	2				4	2	0036	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	(mb)	(mb)	DRY BULB	WET BULB											
									19	510	225	030	023	8	05									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0139	3011	2412	0038050	0000	14488	837							
210		OBS	0000	0139	30105	2412			14488	837							
210		OBS	0005	-0070	31658	2540			14412	732							
		STD	0010	-0132	3240	2640	0015740	0027	14427	955							
210		OBS	0010	-0132	32405	2646			14427	955							
		STD	0020	-0130	3364	2712	0019473	0040	14414	929							
210		OBS	0025	-0130	33690	2730			14409	914							
		STD	0030	-0101	3405	2743	0016612	0040	14410	877							
		STD	0050	-0159	3429	2762	0004768	0052	14412	815							
210		OBS	0050	-0173	3448	2772			14414	764							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1"	MO DAY HR/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SIA		TYPE	AMT	
311165	EW	7457 N	061520E	282	42	09	03 239	1967	026	026	0334	03	19	2			45	9	9		0037
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	(mb)	(mb)	DRY BULB	WET BULB									
								21	501	218	027	027	0	11							

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0188	3092	2474	0032138	0000	14522	812							
239		OBS	0000	0188	30920	2474			14522	812							
239		OBS	0005	0165	31093	2489			14514	826							
		STD	0010	-0023	3278	2635	0010815	0024	14453	940							
239		OBS	0010	-0023	32784	2635			14453	940							
		STD	0020	-0027	3354	2700	0010035	0038	14417	860							
239		OBS	0025	-0102	33623	2724			14405	855							
		STD	0030	-0164	3392	2732	0017632	0047	14407	833							
		STD	0050	-0109	3422	2756	0015328	0067	14412	775							
239		OBS	0050	-0109	34217	2756			14412	775							
		STD	0075	-0175	3439	2770	0003555	0072	14410	770							
239		OBS	0075	-0173	34393	2770			14410	770							
		STD	0100	-0109	3447	2776	0013375	0081	14424	760							
239		OBS	0100	-0109	34468	2776			14424	760							
		STD	0125	-0168	3452	2781	0002965	0089	14429	753							
		STD	0150	-0167	3457	2785	0002572	0096	14434	745							
239		OBS	0151	-0107	34571	2785			14434	745							
		STD	0200	-0154	3465	2793	0002016	0107	14450	729							
239		OBS	T0203	-0153	34650	2791			14451	720							
		STD	0250	-0162	3470	2795	0001543	0116	14455	701							
		STD	0300	-0166	3474	2798	0001207	0123	14462	600							
239		OBS	T0300	-0166	34739	2798			14462	600							
239		OBS	T0343	-0164	34756	2800			14470	615							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	4100 HOURS	MARSSEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	75305N	065460E		282	55	09	04	056	1967	027	0326	03	19	3			45	9	9	0038	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						05	19	23	S05	213		027	024	0	10								
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
		STD	0000	0161	3210	2570	0023031		0000	14526	814												
056		OBS	0000	0161	32095	2570				14526	814												
056		OBS	0005	0159	32099	2570				14526	816												
		STD	0010	0065	3245	2604	0019783		0021	14489	870												
056		OBS	0010	0065	32449	2604				14489	878												
		STD	0020	-0103	3349	2695	0011112		0037	14428	846												
056		OBS	0025	-0159	33854	2726				14407	831												
		STD	0030	-0161	3393	2733	0007563		0046	14408	813												
		STD	0050	-0165	3418	2753	0005630		0059	14413	763												
056		OBS	0050	-0165	34179	2753				14413	763												
		STD	0075	-0165	3435	2767	0004304		0072	14420	757												
056		OBS	0076	-0165	34360	2768				14420	756												
		STD	0100	-0171	3443	2773	0003661		0082	14422	707												
056		OBS	0101	-0171	34436	2774				14422	700												
		STD	0125	-0172	3450	2779	0003108		0090	14427	726												
		STD	0150	-0172	3455	2783	0002710		0097	14432	746												
056		OBS	0151	-0172	34553	2783				14432	747												
		STD	0200	-0174	3464	2790	0001989		0109	14440	744												
056		OBS	T0202	-0174	34648	2791				14441	743												
		STD	0250	-0170	3471	2796	0001440		0118	14451	713												
		STD	0300	-0158	3473	2797	0001304		0125	14466	655												
056		OBS	T0301	-0158	34734	2798				14466	654												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311165		EW	75172N	066300E	282	56	09	04	083	1967	028	0236	02	12	3				0		0039
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
						06	23	24	S14		225	048					036	8	09		
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC				
		STD	0000	0146	2979	2386	0040489	0000	14487	860											
083		OBS	0000	0146	29791	2386			14487	860											
083		OBS	0005	0145	29789	2386			14488	830											
		STD	0010	0133	2985	2391	0040003	0040	14484	833											
083		OBS	0010	0133	29845	2391			14484	833											
		STD	0020	-0083	3264	2626	0017692	0069	14425	861											
083		OBS	0025	-0154	33606	2706			14406	868											
		STD	0030	-0152	3372	2715	0009199	0083	14409	862											
		STD	0050	-0146	3407	2743	0006526	0098	14420	837											
083		OBS	0050	-0146	34069	2743			14420	837											
		STD	0075	-0137	3427	2759	0004999	0113	14431	714											
083		OBS	0076	-0137	34277	2760			14432	712											
		STD	0100	-0140	3434	2765	0004443	0124	14435	716											
083		OBS	0101	-0140	34341	2765			14436	716											
		STD	0125	-0148	3443	2773	0003715	0135	14437	734											
		STD	0150	-0157	3450	2779	0003140	0143	14438	752											
083		OBS	0151	-0157	34503	2779			14438	753											
		STD	0200	-0175	3460	2787	0002291	0157	14439	730											
083		OBS	T0208	-0178	34611	2788			14439	721											

REFERENCE CTRY CODE	SHIP CODE	LATITUDE ° 1°10'	LONGITUDE ° 1°10'	DRAFT INCH	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	FT/1		AMT
311165	EW	74570N	068350E		282	48	09	04	113	1967	029	0104	01	18	2			40	9	9		0040
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB																
			22	507	232	047	032	8	06													

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S.C.C.
		STD	0000	0155	2977	2385	0040669	0000	14491	827							
	114	OBS	0000	0155	29774	2385			14491	827							
	114	OBS	0005	0148	29746	2383			14488	827							
		STD	0010	0020	3109	2497	0029951	0035	14450	803							
		STD	0020	-0157	3306	2662	0014292	0057	14396	768							
	114	OBS	0020	-0157	33056	2662			14396	766							
		STD	0030	-0151	3335	2685	0012041	0071	14405	760							
	114	OBS	0045	-0148	33688	2713			14413	747							
		STD	0050	-0152	3376	2719	0006679	0092	14413	740							
	114	OBS	0070	-0155	33982	2737			14418	721							
		STD	0075	-0153	3403	2740	0006791	0111	14421	719							
	114	OBS	0090	-0138	34124	2748			14432	718							

REFERENCE	SHIP		LATITUDE	LONGITUDE	DATE	MARSDEN SQUARE		STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
	CRUISE NO.	ID. NO.				10"	1"			MO	DAY			HR	MIN	CRUISE NO.	STATION NUMBER		DIR.	HGT	
311165	EA		74370N	070100E		281	40	03 04 139	1967	030		0227	00	18					4	2	0041
WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB															
11	04	23	512	241	053	039	8	05													

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S.C.C.
		STD	0000	0367	1977	1576	0118381	0000	14452	816							
	139	OBS	0000	0367	19768	1576			14452	816							
	139	OBS	0005	0234	25023	2001			14465	828							
		STD	0010	0143	2003	2131	0004600	0092	14467	827							
	139	OBS	0010	0143	20029	2131			14467	827							
	139	OBS	0015	-0035	20442	2288			14388	751							
		STD	0020	-0150	3240	2648	0015545	0132	14397	772							
	139	OBS	0020	-0150	32095	2648			14397	772							

REFERENCE		SHIP CODE	LATITUDE ° ' ''	LONGITUDE ° ' ''	MARS DEN SQUARE ° ' ''	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE NO.	STATION NUMBER					CRUISE NO.	STATION NUMBER		DR.	HGT			PER	SEA	TYPE	AMT					
311165	EA	74210	N	7130	E	81	40	03 04 103	1967	031	0019	00	18	2				4	2		0042
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANSL- M	DIR.	SPEED OF KTS		DRY BULB	WET BULB															
			23	512	241	053	039	8	04												

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S.C.C.
		STD	0000	0443	1218	0771	0177361	0000	14388	842							
	164	OBS	0000	0443	12176	0771			14388	842							
	164	OBS	0005	0443	12173	0771			14389	846							
		STD	0010	0434	1235	0784	0175940	0177	14388	833							
	164	OBS	0010	0434	12351	0786			14388	833							
	164	OBS	0015	-0150	12971	1613			14217	758							

REFERENCE		SHIP CODE	LATITUDE 1 10	LONGITUDE 1 10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1"		MO	DAY			HR	10	CRUISE NO.	STATION NUMBER		DIR	HGT	
311165	EA		74° 16' N	073100 E	281	43	09 04	189	1967	032		0032	00	18	3			0		0043
WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
			25	512	244	051	052	7	04											

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S.C.C.
		STD	0000	0425	1256	1002	0174330	0000	14305	842							
	189	OBS	0000	0425	12556	1002			14385	842							
	189	OBS	0005	0423	12553	1002			14384	845							
		STD	0010	0415	1304	1041	0170502	0172	14388	820							
	189	OBS	0010	0415	13041	1041			14388	820							
	189	OBS	0018	-0126	1526	1223			14166	690							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
311165	EW		73480N	079580E		281	39	09 05 038	1967		033		0037	00	23	1			4	1		0044			
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
							COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
							12	04	23	S12	256	045	039	8	08										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C							
		STD	0000	0273	0871	0701	0203974		0000	14267	888														
	038	OBS	0000	0273	08713	0701				14267	888														
	038	OBS	0005	0273	08673	0698				14267	893														
		STD	0010	0260	0922	0741	0199961		0202	14269	889														
	038	OBS	0010	0260	09217	0741				14269	889														
	038	OBS	0015	-0108	22880	1839				14277	833														
		STD	0020	-0146	2776	2233	0055111		0330	14327	831														
	038	OBS	0020	-0146	27762	2233				14327	831														
	038	OBS	0025	-0155	31954	2572				14382	686														
		STD	0030	-0149	3321	2674	0013114		0364	14404	544														
	038	OBS	0030	-0149	33211	2674				14404	544														
	038	OBS	0034	-0150	33260	2678				14404	542														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311165	EW		74050N	078440E		281	48	09 05 064	1967		034		0028	00	22	1					7	8		0045
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB											
						12		04	22	S11	249	053	044	7	06									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SI O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	0184	1246	1001		0174484		0000	14274	888												
064		OBS	0000	0184	12457	1001					14274	888												
064		OBS	0005	0081	13936	1120					14246	869												
		STD	0010	0044	1424	1144		0160444		0167	14233	874												
064		OBS	0010	0044	14242	1144					14233	874												
064		OBS	0015	-0119	23975	1927					14287	844												
		STD	0020	-0137	2789	2243		0054114		0275	14333	791												
064		OBS	0020	-0137	27892	2243					14333	791												
064		OBS	0025	-0151	32871	2647					14397	532												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAUGHT INCHES	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
311165	EW	74247N	077150E	281	47	09 05 093	1967		035		0034	00	22	1			45	9 9		0046	
						WATER		WIND		AIR TEMP. °C		BARO- METER		NO. OBS.		SPECIAL OBSERVATIONS					
						COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE								
						12		05	00	S00	238	036	034	0	07						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C			
		STD	0000	0208	1290	1036	0171048		0000	14291	873										
	094	OBS	0000	0208	12899	1036				14291	873										
	094	OBS	0005	0067	15464	1242				14259	863										
		STD	0010	-0091	2226	1788	0097867		0134	14276	798										
	094	OBS	0010	-0091	22255	1788				14276	798										
	094	OBS	0015	-0123	24272	1951				14289	800										
		STD	0020	-0151	2962	2383	0040755		0204	14351	730										
	094	OBS	0020	-0151						730											
	94	OBS	0025	-0158	32300	2600				14386	589										
		STD	0030	-0155	3233	2602	0019906		0234	14388	574										
	094	OBS	0030	-0155	32325	2602				14388	574										

REFERENCE CFTY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
								CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA
311165	EW	74445N	075475E	281 45 04 123	1967			036		0036	00	22	13			0	0047	
				WATER		WIND		AIR TEMP: °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE							
				12	07	14	514	213	053	044	8	07						

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S °C
		STD	0000	0289	1816	1445	0131132	0000	14395	837							
123		OBS	0000	0289	18063	1445			14395	837							
123		OBS	0005	0253	18895	1513			14390	833							
		STD	0010	0152	2137	1714	0105080	0118	14378	838							
123		OBS	0010	0152	21372	1714			14378	838							
123		OBS	0015	0137	25713	1904			14357	801							
		STD	0020	-0149	2830	2277	0050926	0196	14333	795							
123		OBS	0020	-0149	28303	2277			14333	795							
123		OBS	0025	-0160	24722	2392			14349	804							
		STD	0030	-0161	3077	2476	0031901	0238	14364	748							
123		OBS	0030	-0161	30765	2476			14364	748							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY		HR	10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
311165		EW	75310N	078300E		281	58 09	05 173	1967		036A		0047	00	22	13					516		0048	
							WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE										
									20	516	164	039	032	7	05									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S °C
		STD	0000	0036	2481	1992	0078284	0000	14369	857							
173		OBS	0000	0036	24805	1992			14369	857							
173		OBS	0005	-0078	27515	2212			14354	876							
		STD	0010	-0074	2774	2230	0055382	0067	14350	882							
173		OBS	0010	-0074	27737	223			14350	882							
		STD	0020	-014	2866	2376	0048178	0119	14343	821							
173		OBS	0025	-0153	29453	2370			14348	787							
		STD	0030	-0153	31148	2453	0034110	0160	14364	750							
173		OBS	0040	-0152	33197	2673			14404	667							

REFERENCE STATION NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
								CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA				
311165	EW	755 5N	076400E	281 56 02	5	204	1967		036B		0046	00	22	15		47	99	0049	
				WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE								
						22	525	110	046	044	0	05							

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S °C
		STD	0000	0114	2364	1896	0087458	0000	14389	870							
204		OBS	0000	0114	23644	1896			14389	870							
204		OBS	0005	0111	23659	1898			14389	855							
		STD	0010	0047	2463	1977	0079655	0084	14373	861							
204		OBS	0010	0047	24629	1977			14373	861							
		STD	0020	-012	2866	2305	0048206	0147	14352	829							
204		OBS	0025	-0161	30206	2431			14355	797							
		STD	0030	-0159	3144	2531	0026706	0185	14374	754							
204		OBS	0035	-0157	32362	2605			14389	701							

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311165	EW	75030N	074190E	281	54	09	06	017	1967		037		0042	00	21	5			47	7	8		0050	
					WATER		WIND		AIR TEMP. °C		BARO- METER		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
					12	07	22	S25	079	064	058	0	05											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S CC							
		STD	0000	0384	1405	1123	0162545	0000	14386	838														
018		OBS	0000	0384	14053	1123			14386	838														
018		OBS	0005	0370	14110	1128			14381	841														
		STD	0010	0175	2194	1758	0100818	0132	14396	798														
018		OBS	0010	0175	21935	1758			14396	798														
018		OBS	0015	-0053	26619	2140			14355	798														
		STD	0020	-0143	2875	2313	0047480	0206	14342	776														
018		OBS	0020	-0143	28750	2313			14342	776														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		75250N	073060E	281	53	09	06	052	1967		038		0040	00	21	5			45	9	9	0051
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
						11	00	22	S28	964	055	052	1	06									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S CC						
		STD	0000	0354	1560	1247	0150446	0000	14392	831													
052		OBS	0000	0354	15599	1247			14392	831													
052		OBS	0005	0348	15591	1246			14390	833													
		STD	0010	0347	1561	1248	0150296	0150	14391	827													
052		OBS	0010	0347	15612	1248			14391	827													
052		OBS	0015	0330	16338	1306			14393	825													
		STD	0020	0239	1731	1387	0136713	0294	14366	823													
052		OBS	0020	0239	17313	1387			14366	823													
052		OBS	0025	0017	23703	1904			14349	776													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		75550N	073310E		281	53	09	06	089	1967		039		0086	01	23	8			3	2	0052
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB											
								25	S22	970	039	001	8	06									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S CC				
		STD	0000	0051	2884	2315	0047282		0000		14431	838											
089		OBS	0000	0051	28844	2315					14431	838											
089		OBS	0005	0051	28844	2315					14432	841											
		STD	0010	0042	2901	2329	0045951		0047		14431	843											
089		OBS	0010	0042	29012	2329					14431	843											
		STD	0020	-0116	3218	2590	0021123		0080		14403	820											
089		OBS	0024	-0158	33035	2660					14396	816											
		STD	0030	-0157	3307	2663	0014176		0098		14398	837											
089		OBS	0040	-0155	33173	2671					14403	843											
		STD	0050	-0154	3325	2677	0012787		0125		14405	839											
089		OBS	0073	-0135	34927	2813					14442	714											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		77370N	06920E		282	79	04	07	043	1967		042	0440	04	30	7				3	5	0053	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO. OBS. DEPTHS															
05	21	28	515	127	015	004	8	11																
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C							
		STD	0000	0115	3350	2685	0012092	0000	14524	806														
044		OBS	0000	0115	33496	2685			14524	806														
044		OBS	0005	0115	33485	2684			14525	805														
		STD	0010	0115	3349	2685	0012103	0012	14526	805														
044		OBS	0010	0115	33444	2685			14526	805														
		STD	0020	0109	3356	2693	0011571	0024	14526	806														
044		OBS	0026	0037	33652	2699			14518	806														
		STD	0030	0027	3384	2718	0008979	0034	14494	798														
		STD	0050	-0160	3449	2778	0003254	0046	14420	765														
044		OBS	0052	-0168	34532	2782			14417	763														
		STD	0105	-0111	3405	2789	0002180	0053	14449	749														
044		OBS	0107	-0106	3466	2790			14452	748														
		STD	0100	-0047	3476	2796	0001597	0058	14485	735														
044		OBS	0105	-004	34770	2790			14489	734														
		STD	0125	-0070	3478	2798	0001351	0062	14478	744														
		STD	0150	-0095	3474	2800	0001155	0065	14471	761														
044		OBS	0156	-0099	34791	2800			14470	763														
		STD	0200	-0097	3468	2807	0000457	0069	14480	760														
044		OBS	0208	-0097	34687	2808			14481	759														
		STD	0250	-0092	3487	2807	0000507	0071	14493	757														
		STD	0300	-0088	3485	2805	0000640	0074	14500	754														
044		OBS	0308	-0087	34851	2805			14502	753														
		STD	0400	-0081	3491	2804	0000233	0078	14521	754														
044		OBS	0412	-0080	34927	2811			14524	753														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		78036N	06810E	282	88	09	07	077	1967		043	0430	04	29	15					7	8	0054	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO. OBS. DEPTHS															
			19	508	108	025	014	7	11															
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · dl/l	TOTAL-P μg · dl/l	NO ₂ -N μg · dl/l	NO ₃ -N μg · dl/l	SiO ₄ -Si μg · dl/l	pH	S C							
		STD	0000	0026	3236	2599	0020289	0000	14468	833														
077		OBS	0000	0026	32354	2599			14468	833														
077		OBS	0004	0026	32359	2599			14469	834														
077		OBS	0009	0026	32346	2598			14470	839														
		STD	0010	0026	3239	2601	0020041	0020	14470	843														
		STD	0020	0013	3283	2677	0016018	0038	14472	870														
077		OBS	0023	0004	32973	2649			14470	872														
		STD	0030	-0062	3350	2695	0011176	0052	14448	841														
077		OBS	0048	-0171	34385	2771			14413	787														
		STD	0050	-0073	3442	2771	0003913	0067	14412	785														
077		OBS	0072	-0177	34528	2781			14416	769														
		STD	0075	-0173	3454	2782	0002825	0076	14419	768														
077		OBS	0097	-0137	34605	2787			14440	760														
		STD	0100	-0125	3462	2787	0002353	0082	14440	757														
		STD	0125	-0047	3474	2794	0001745	0087	14488	739														
077		OBS	0145	-0010	34804	2797			14510	734														
		STD	0150	-0010	3481	2798	0001390	0091	14510	736														
077		OBS	0195	-0014	34825	2799			14516	754														
		STD	0230	-0019	3483	2800	0001190	0098	14515	750														
		STD	0250	-0062	3484	2803	0000890	0103	14504	766														
077		OBS	0258	-0085	34850	2805			14500	767														
		STD	0300	-0087	3486	2805	0000610	0107	14501	760														
		STD	0400	-0099	3492	2811	0000067	0110	14512	734														
077		OBS	0405	-0100	34927	2811			14513	731														

[illegible]

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.		SEA	TYPE		AMT.
311165	EW		79194N	064160E	282	94	09	07 181	1967		046	0311	03	19	3			44	1	8	0057
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. IN	DIR.	SPEED OR FORCE			DRY BULB	WET BULB	VIS. CODE											
					26	S18	855	012	006	0	10										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₂ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SIO ₂ -S $\mu g - \sigma_t/l$	pH	S CODE				
		STD	0000	-0158	3286	2645	0015050	0000	14389	879											
181		OBS	0000	-0156	32055	2645			14389	879											
181		OBS	0005	-0159	32855	2645			14393	872											
		STD	0010	-0159	3286	2645	0015040	0016	14391	873											
181		OBS	0010	-0159	32855	2645			14391	873											
		STD	0020	-0170	3344	2693	0011311	0029	14395	880											
181		OBS	0025	-0174	33683	2713			14398	884											
		STD	0030	-0174	3388	2729	0007715	0039	14401	852											
		STD	0050	-0173	3440	2771	0003913	0051	14412	765											
181		OBS	0052	-0173	34428	2773			14413	760											
		STD	0075	-0169	3445	2775	0003526	0060	14419	748											
181		OBS	0077	-0169	34452	2775			14420	747											
		STD	0100	-0148	3459	2786	0002503	0068	14435	748											
181		OBS	0103	-0146	34602	2787			14437	748											
		STD	0125	-0136	3464	2789	0002149	0074	14446	747											
		STD	0150	-0118	3467	2791	0001474	0079	14459	745											
181		OBS	0153	-0115	34674	2792			14461	745											
		STD	0200	-0054	3476	2796	0001546	0087	14478	733											
181		OBS	T 0205	-0047	34765	2796			14501	732											
		STD	0250	-0014	3481	2798	0001365	0095	14525	724											
181		OBS	T 297	0001	3484	2800			14543	720											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER										
CRUISE CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.		SEA	TYPE		AMT.									
311165	EW		78546N	060285E	282	6	07	08 019	1967		049	0256	02	29	6			44	1	9	0058									
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																		
		COLOR CODE	TRANSL. IN	DIR.	SPEED OF FORCE			DRY BULB	WET BULB	VIS. CODE																				
							29	S12	890	-002	-004	1	10																	
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - σ _t /l	TOTAL-P μg - σ _t /l	NO ₂ -N μg - σ _t /l	NO ₃ -N μg - σ _t /l	SiO ₂ -S μg - σ _t /l	pH	S CODE												
		STD	0000	-0141	3196	2572	0022777		0000	14385	882																			
009		OBS	0000	-0141	31759	2572				14385	882																			
009		OBS	0004	-0142	31957	2572				14385	884																			
009		OBS	0008	-0142	31923	2578				14387	884																			
		STD	0010	-0142	3215	258	2274		0022	14387	885																			
		STD	0020	-0141	3218	259	0011061		0044	14391	887																			
009		OBS	0021	-0141	32193	2591				14392	887																			
		STD	0030	-0161	3332	2583	0012247		0051	14400	822																			
009		OBS	0043	-0175	34335	2700				14409	762																			
		STD	0050	-0171	3437	2764	0004149		0077	14415	759																			
009		OBS	0064	-0150	34445	2774				14422	752																			
		STD	0075	-0148	3451	2774	0003128		0086	14430	745																			
009		OBS	0075	-138	34563	2783				14437	738																			
		STD	0100	-0126	3465	2790	002117		0093	14446	725																			
		STD	0125	-0113	3470	2794	0001314		0097	14458	713																			
009		OBS	0127	-0112	34763	2799				14459	712																			
		STD	0150	-0112	3483	2804	000775		0100	14464	714																			
009		OBS	T 0170	-0112	34855	2807				14467	710																			

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S				DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER	DIR.	HGT PER			SEA	TYPE	AMT				
311165	Ew		78410N	060200E		282	80	09	08	037	1967	050		0177	01	24	4				6	8	0059	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						06	25	29	512	947	-004	-005	8	08										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC							
		STD	0000	-0113	3193	2569	0023059	0000	14398	852														
	037	OBS	0000	-0113	31931	2569			14398	852														
	037	OBS	0005	-0114	31930	2569			14398	861														
		STD	0010	-0113	3193	2569	0023066	0023	14399	850														
	037	OBS	0011	-0113	31929	2569			14399	848														
		STD	0020	-0144	3343	2692	0011452	0040	14407	840														
	037	OBS	0027	-0161	34233	2757			14412	830														
		STD	0030	-0162	3426	2759	0005029	0049	14412	821														
		STD	0050	-0167	3440	2771	0003929	0058	14415	773														
	037	OBS	0054	-0168	34429	2773			14416	765														
		STD	0075	-0130	3455	2782	0002879	0066	14439	734														
	037	OBS	0081	-0115	34586	2784			14447	728														
		STD	0100	-0056	3467	2789	0002242	0072	14479	714														
	037	OBS	0107	-0030	34696	2790			14493	712														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	Ew		78175N	061420E		282	81	09	08	086	1967	051		0302	03	25	6			7 2		0060
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB										
						06	22	27	515	995	011	-002	7	10								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC		
		STD	0000	-0035	3245	2609		0019336		0000		14441	838									
	086	OBS	0000	-0035	32449	2609						14441	838									
	086	OBS	0005	-0035	32446	2608						14442	844									
	086	OBS	0009	-0035	32441	2608						14443	842									
		STD	0010	-0044	3259	2620		0018217		0019		14441	843									
		STD	0020	-0116	3383	2723		0008465		0032		14426	850									
	086	OBS	0025	-0142	34247	2758						14421	854									
		STD	0030	-0156	3428	2761		0004891		0039		14415	835									
		STD	0050	-0178	3439	2771		0003947		0048		14410	774									
	086	OBS	0050	-0178	34394	2771						14410	774									
	086	OBS	0073	-0141	34519	2780						14433	739									
		STD	0075	-0131	3453	2780		0003029		0056		14438	737									
	086	OBS	0098	-0028	34670	2787						14492	720									
		STD	0100	-0021	3468	2788		0002330		0063		14495	719									
		STD	0125	0052	3479	2793		0001891		0068		14534	712									
	086	OBS	0146	0093	34853	2795						14557	707									
		STD	0150	0097	3486	2796		0001648		0073		14560	707									
	086	OBS	T0193	0118	34878	2796						14577	703									
		STD	0200	0118	3488	2796		0001653		0081		14578	703									
		STD	0250	0095	3489	2798		0001431		0089		14576	700									
	086	OBS	T0282	0057	34891	2801						14564	700									

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE INDEX	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	Ew	77390N	059537E	283	79	09	10	014	1967		058	0311	02	30	8			70	9	9		0061
				WATER		WIND		BARO- METER (mbars)		AIR TEMP. °C				SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
						33 523		971		002 -004		4 10										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC	
014	OBS		00000	0049	33051	2653								831								
014	OBS		00020	0048	33052	2653								830								
014	OBS		00040	0048	33050	2652								816								
014	OBS		00100	0047	33064	2654								813								
014	OBS		00200	-0059	34155	2747								846								
014	OBS		00310	-0137	34535	2781								774								
014	OBS		00440	-0121	34629	2788								757								
014	OBS		00760	-0085	34732	2795								740								
014	OBS		01140	-0129	34774	2800								757								
014	OBS		01840	-0086	34887	2808								720								

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
							10'	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA	TYPE	AMT	

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₄ -Si $\mu g - \mu l/l$	pH
		STD	0000	0153	3342	2677	0012696	0000	14540	796						
041		OBS	0000	0153	33422	2677			14540	796						
041		OBS	0005	0153	33431	2677			14541	782						
		STD	0010	0154	3343	2677	0012644	0013	14542	770						
041		OBS	0011	0154	33430	2677			14543	775						
		STD	0020	0154	3344	2677	0012807	0026	14544	777						
041		OBS	0027	0154	33438	2678			14545	778						
		STD	0030	0105	3303	2696	0011015	0038	14527	775						
		STD	0050	-0123	3458	2784	0002583	0051	14438	759						
041		OBS	0054	-0148	34693	2794			14429	757						
		STD	0075	-0146	3475	2794	0001296	0056	14434	750						
041		OBS	0082	-0137	34774	2800			14460	756						
		STD	0100	-0150	3484	2800	0000042	0059	14470	762						
041		OBS	0108	-0053	34865	2800			14480	764						
		STD	0125	-0073	3408	2806	0000590	0061	14478	761						
		STD	0150	-0089	3480	2808	0000404	0062	14476	750						
041		OBS	0174	-0103	34405	2810			14473	754						

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
							10'	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA	TYPE	AMT	

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₄ -Si $\mu g - \mu l/l$	pH
		STD	0000	0120	3305	2713	0009432	0000	14531	797						
	71	OBS	0000	0120	33850	2713			14531	797						
	71	OBS	0005	0119	33845	2713			14532	794						
		STD	0011	0119	3384	2713	0009480	0019	14532	795						
	71	OBS	0011	0119	33843	2713			14533	795						
		STD	0020	0119	3385	2714	0009395	0019	14534	796						
	041	OBS	0024	0118	33863	2714			14535	796						
		STD	0030	0111	3382	2720	0008786	0028	14524	795						
		STD	0050	-0151	3441	2767	0004340	0041	14479	779						
	041	OBS	0054	-0050	34483	2774			14472	775						
		STD	0105	-0100	34478	2777	0001441	0040	14404	750						
	71	OBS	0105	-0111	34822	2803			14455	720						

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
							10'	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA	TYPE	AMT	

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - μl/l	TOTAL-P μg - μl/l	NO ₂ -N μg - μl/l	NO ₃ -N μg - μl/l	SiO ₄ -Si μg - μl/l	pH
		STD	0000	0139	3399	2723	0008520	0000	14542	795						
	113	OBS	0000	0139	33986	2723			14542	795						
	103	OBS	0005	0136	33985	2723			14541	797						
		STD	0010	0136	3398	2722	0008540	0009	14543	808						
	103	OBS	0010	0138	33982	2722			14543	808						
		STD	0020	0074	3420	2748	0006115	0016	14520	814						
	113	OBS	0027	0132	34391	2762			14504	816						
		STD	0030	0011	3443	2766	0004401	0021	14495	815						
		STD	0150	-0089	3462	2786	0002500	0026	14455	806						
	103	OBS	0052	-0095	34635	2788			14453	805						
		STD	0075	-0107	3467	2791	0002042	0034	14451	792						
	103	OBS	0079	-0104	34671	2791			14451	791						
		STD	0100	-0119	3469	2793	0001830	0039	14450	790						
	113	OBS	0105	-0121	34695	2793			14450	789						
		STD	0125	-0128	3472	2796	0001565	0043	14451	784						
	113	OBS	0132	-0130	34724	2795			14451	781						

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311165	EW		76270N	059230E		283	69	09	10	191	1967		068	0240	02	27	9			87	7	8	0065
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB											
									31	517	005	012	006	6	08								
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C						
		STD	0000	0211	3411	2727	0006077	0000	14575	770													
191		OBS	0000	0211	34111	2727			14575	770													
191		OBS	0005	0212	34106	2727			14577	784													
		STD	0010	0212	3411	2727	0008124	0008	14577	786													
		STD	0020	0211	3411	2727	0008124	0016	14579	790													
191		OBS	0021	0211	34106	2727			14579	790													
		STD	0030	0102	3429	2750	0005981	0023	14534	816													
191		OBS	0048	-0051	34583	2781			14472	833													
		STD	0050	-0060	3461	2784	0002694	0032	14468	826													
		STD	0075	-0121	3481	2803	0000698	0036	14447	768													
191		OBS	0075	-0121	34813	2803			14447	768													
		STD	0100	-0091	3485	2805	0000720	0038	14466	772													
191		OBS	0102	-0089	34855	2805			14467	772													
		STD	0125	-0086	3487	2806	0000591	0040	14472	772													
		STD	0150	-0082	3488	2807	0000493	0041	14479	773													
191		OBS	0156	-0081	34887	2807			14480	773													
		STD	0200	-0098					765														
191		OBS	T0220	-0112					758														

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311165	EW		76435N	057440E		283	67	09	10	226	1967		067	0108	01	28	6			85	0	8	0066
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									29	508	000	015	008	7	08								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
		STD	0000	0219	3418	2732	0007615	0000	14580	769													
226		OBS	0000	0219	34180	2732			14580	769													
226		OBS	0005	0218	34177	2732			14580	774													
		STD	0010	0219	3418	2732	0007649	0008	14581	775													
226		OBS	0010	0219	34176	2732			14581	775													
		STD	0020	0220	3418	2732	0007652	0015	14583	776													
226		OBS	0025	0220	34177	2732			14584	776													
		STD	0030	0137	3431	2749	0006055	0022	14550	789													
		STD	0050	-0074	3470	2792	0001986	0030	14463	809													
226		OBS	0050	-0074	34695	2792			14463	809													
		STD	0075	-0062	3483	2802	0001023	0034	14475	763													
226		OBS	0075	-0062	34827	2802			14475	763													
		STD	0100	-0063	3486	2804	0000785	0036	14479	751													
226		OBS	0100	-0063	34857	2804			14479	751													
		STD	0125	-0064	3489	2808	0000437	0036	14473	745													
226		OBS	T0147	-0119	34912	2811			14461	744													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311165	EW		77010N	055500E		283	75	09	11	023	1967		066	0155	01	32	4				8	7	0067
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						04	21	34	506		996	009					-002	7	06				
MISSING TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH						
		STD	0000	0240	3412	2726	0006223		0000	14588	761												
	023	OBS	0000	0240	34121	2726				14588	761												
	023	OBS	0005	0239	34124	2726				14589	763												
		STD	0010	0239	3413	2727	0008145		0008	14589	764												
	023	OBS	0010	0239	34131	2727				14589	764												
		STD	0020	0240	3413	2727	0008145		0016	14592	766												
	023	OBS	0026	0241	34134	2727				14593	768												
		STD	0030	0172	3425	2741	0006751		0024	14565	769												
		STD	0050	-0049	3469	2790	0002130		0033	14474	775												
	023	OBS	0051	-0055	34701	2791				14472	775												
		STD	0075	-0020	3482	2799	0001271		0037	14494	780												
	023	OBS	0077	-0018	34826	2800				14495	759												
		STD	0100	-0016	3486	2802	0000983		0040	14500	761												
	023	OBS	0103	-0016	34868	2803				14501	761												
		STD	0125	-0043	3487	2804	0000781		0042	14492	762												
	023	OBS	0138	-0072	34870	2806				14481	763												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT FOOT	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	M.O	DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311165	EW		77180N	053580E	283	73	09 11 057	1967		065		0340	03	32	3			6	2		0068
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
06	26	35	S11	048	-002	-012	8	10													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	°C				
		STD	0000	0232	3382	2703	0010417	0000	14581	768											
077	OBS	0000	0232	33823	2703				14581	768											
077	OBS	0005	0231	33818	2702				14581	782											
	STD	0010	0231	3382	2702		0010436	0010	14582	776											
077	OBS	0011	0231	33822	2703				14582	775											
	STD	0020	0232	3382	2703		0010422	0021	14584	788											
077	OBS	0027	0232	33824	2703				14585	793											
	STD	0030	0165	3396	2719		0008900	0031	14558	788											
	STD	0030	-0133	3461	2787		0002421	0042	14434	766											
077	OBS	0053	-0156	34667	2792				14425	764											
	STD	0075	-0103	3476	2799		0001469	0047	14455	764											
077	OBS	0081	-0193	34781	2794				14460	763											
	STD	0100	-0077	3482	2802		0010007	0050	14472	755											
077	OBS	0107	-0070	34838	2803				14476	753											
	STD	0125	-0035	3488	2805		0001735	0052	14496	754											
	STD	0150	-0008	3491	2806		0001442	0053	14513	756											
077	OBS	0161	-0004	34925	2807				14517	757											
	STD	0200	-0004	3493	2807		0001421	0054	14517	743											
077	OBS	0214	-0152	34934	2810				14514	739											
	STD	0230	-0083	3494	2811		0001468	0057	14497	734											
	STD	0300	-0124	3494	2813		-0001441	0057	14485	739											
077	OBS	0316	-0136	34937	2815				14482	739											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR	HGT	
311165	EW		77304N	052010E	283	72	09 11 089	1967	064		0311	03	36	2			5	8	0069
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. mm	DIR	SPEED OR FORCE	DRY BULB	WET BULB														
06	32	36	S07	048	-004	-013	8	10											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	°C		
		STD	0000	0082	3347	2685	0002281	0001	14509	820									
089		OBS	0000	0082	3347	2685			14509	820									
089		OBS	0004	0081	33465	2685			14509	823									
089		OBS	0009	0081	33454	2684			14510	815									
		STD	0010	0081	3346	2684	0001167	0012	14510	815									
		STD	0020	0081	3347	2685	0012121	0024	14511	819									
089		OBS	0023	0081	33468	2685			14512	820									
		STD	0030	-0022	3396	2794	0001737	0034	14474	795									
089		OBS	0046	-0163	34632	2794			14421	753									
		STD	0050	-0111	3473	2795	0001445	0044	14422	746									
089		OBS	0069	-0152	34746	2798			14430	734									
		STD	0075	-0036	3475	2794	0001728	0048	14485	745									
089		OBS	0092	0178	34770	2793			14505	768									
		STD	0100	0102	3478	2789	0002276	0053	14553	768									
		STD	0125	-0070	3482	2801	0001031	0057	14479	753									
089		OBS	0140	-0126	34850	2806			14456	757									
		STD	0150	-0111	3487	2807	0001473	0059	14465	747									
089		OBS	0187	-0076	34934	2811			14488	720									
		STD	0200	-0080	3494	2812	0001047	0060	14488	720									
		STD	0250	-0096	3497	2814	-0001032	0063	14490	722									
089		OBS	0270	-0102	34977	2815			14490	722									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER														
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER				DIR	HGT	PER	SEA		TYPE	AMT															
311165		EW	77525N	050040E		283	70	09	11	120	1967		063		0225	02	36	3				6	8	0070														
		MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C																			
		WATER COLOR CODE	TRANS. (m)	DIR.	WIND SPEED OR FORCE	BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																											
							DRY BULB	WET BULB																														
							06	36	04	513	072	-016	-027	8	09																							
				STD	0000	0068	3353	2690	0011592	0000	14503	818																										
	120			OBS	0000	0068	33526	2690			14503	818																										
	120			OBS	0004	0066	33528	2691			14503	817																										
				STD	0010	0066	3354	2691	0011496	0012	14504	819																										
	120			OBS	0010	0066						819																										
				STD	0020	0067	3355	2692	0011393	0023	14507	819																										
	120			OBS	0024	0067	33557	2693			14507	819																										
				STD	0030	-0011	3394	2728	0008031	0033	14478	801																										
	120			OBS	0047	-0154	34645	2790			14424																											
				STD	0050	-0154	3466	2792	0001973	0043	14425	756																										
	120			OBS	0071	-0156	34712	2796			14428	734																										
				STD	0075	-0156	3472	2796	0001496	0047	14429	735																										
	120			OBS	0095	-0154	34746	2799			14434	739																										
				STD	0100	-0151	3475	2799	0001269	0050	14436	740																										
				STD	0125	-0133	3479	2801	0001012	0053	14449	743																										
	120			OBS	0143	-0119	34817	2803			14459	746																										
				STD	0150	-0113	3483	2804	0000771	0056	14463	744																										
	120			OBS	T0191	-0075	34932	2811			14489	716																										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311165		EW	78100N	048080E	284	88	09	11	149		1967		062	032d	03	36	3				5	8	0071
		WATER COLOR CODE	TRANS. (m)	DIR.	WIND SPEED OR FORCE	BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
							DRY BULB	WET BULB															
							06	31	01	510	102	-022	-029	8	10								
MESSAGE TIME HR 1/10			CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C				
				STD	0000	0102	3349	2685	0012098	0000	14518	809											
	149			OBS	0000	0102	33485	2685			14518	809											
	149			OBS	0005	0101	33484	2685			14519	815											
				STD	0010	0100	3348	2685	0012132	0012	14519	811											
	149			OBS	0010	0100	33479	2685			14519	811											
				STD	0020	0033	3382	2716	0009163	0023	14495	861											
	149			OBS	0026	-0006	34014	2733			14481	872											
				STD	0030	-0039	3417	2748	0006149	0030	14468	850											
				STD	0050	-0153	3468	2793	0001822	0038	14426	773											
	149			OBS	0051	-0156	34695	2794			14425	771											
				STD	0075	-0164	3473	2798	0001394	0042	14425	759											
	149			OBS	0077	-0165	34733	2798			14425	758											
				STD	0100	-0160	3476	2800	0001164	0046	14432	759											
	149			OBS	0102	-0159	34765	2800			14433	759											
				STD	0125	-0130	3481	2803	0000870	0048	14451	759											
				STD	0150	-0109	3486	2806	0000557	0050	14466	760											
	149			OBS	0154	-0107	34861	2806			14467	760											
				STD	0200	-0105	3490	2809	0000252	0052	14476	751											
	149			OBS	T0203	-0105	34905	2810			14477	750											
				STD	0250	-0107	3494	2813	-0000076	0052	14484	735											
	149			OBS	T0297	-0112	34980	2816			14490	716											

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. MOON	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMP'L	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165		EW	7724 JN	046190E		284	76	09	11	201	1967	075		0265	02	35	2			5	8	0072
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
									34	515	134	-004	-017	9	08							
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C				
		STD	0000	0163	3360	2690	0011641		0000	14547	779											
	201	OBS	0000	0163	33596	2690				14547	779											
	201	OBS	0000	0163	33596	2690				14548	779											
	201	OBS	0009	0165	33595	2690				14549	784											
		STD	0010	0153	3364	2694	0011642		0011	14545	784											
		STD	0020	0144	3399	2724	0017931		0021	14553	788											
		STD	0030	-0141	3428	2757	0005301		0028	14469	792											
	201	OBS	0044	-0121	34561	2782				14438	797											
		STD	0050	-0138	3454	2785	0002558		0036	14432	777											
	201	OBS	0067	-0155	3454	2794				14428	740											
		STD	0075	-0155	3474	2795	0001375		0040	14447	738											
	201	OBS	0089	-0112	34804	2800				14453	735											
		STD	0100	-0105	3485	2805	0000697		0043	14460	739											
		STD	0125	-0035	3487	2804	0000797		0045	14494	745											
		STD	0150	-0011	3491	2806	0000625		0047	14512	750											
	201	OBS	T 0179	-0034	34935	2811				14520	752											
		STD	0200	-0010	3495	2809	0001243		0051	14518	750											
	201	OBS	T 2206	-0049	34961	2812				14507	746											

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SPLS.	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	EW		7724 JN	047500E	284	76	09	11 201	1967	075		0270	02	35	2			5 8	0073	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FOE	(mb)	(mb)	DRY BULB	WET BULB							
									34	506	134	-005	-017	9	10					
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C			
		STD	0000	0155	3357	2709	000984	0000	14547	793										
	234	OBS	0000	0156	33627	2709			14547	793										
	234	OBS	0005	0154	3360	2704			14547	794										
		STD	0010	0153	3382	2709	000985	0011	14547	788										
	234	OBS	0010	0153	3380	2709			14547	788										
		STD	0020	0156	3383	2709	000986	0021	14550	790										
	234	OBS	0020	0157	3386	2709			1455	791										
		STD	0030	0158	3388	2726	000987	0021	14574	792										
		STD	0040	-0130	3456	2787	0002794	0042	14437	792										
	234	OBS	0050	-0147	3480	2787			14428	792										
		STD	0075	-0121	3474	2709	0001456	0045	14446	742										
	234	OBS	0075	-0117	3475	2708			14445	740										
		STD	0100	-0057	3484	2805	000942	0048	14481	746										
	234	OBS	0100	-0051	3484	2805			14484	747										
		STD	0125	-0022	3484	2804	0000775	0050	14507	752										
		STD	0150	-0004	3493	2807	0000582	0052	14521	756										
	234	OBS	0154	-0010	34953	2807			14520	750										
		STD	0200	-0002	3496	2811	0001188	0054	14514	750										
	234	OBS	0200	-0001	3496	2811			14512	747										
	234	OBS	T 0234	-0052	34965	2815			14504	728										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	ID. NO.						10°	1°	MD		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE	AMT
311165	EW		76454N	049480E		284	69	09	12	023	1967	073		0284	03	36	2			5	8	0074		
						WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	ND. OBS. DEPTHS										
									01	506	134	-006	-017	8	10									
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	Si D ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C					
		STD	0000	0129	3355	2688	0011761		0000		14531	804												
024	OBS	0000	0129	33551	2688						14531	802												
024	OBS	0005	0128	33551	2689						14532	806												
	STD	0010	0127	3355	2689		0011750		0012		14532	801												
024	OBS	0010	0127	33551	2689						14532	801												
	STD	0020	0128	3355	2688		0011763		0024		14534	803												
024	OBS	0025	0128	33550	2688						14535	804												
	STD	0030	0042	3387	2719		0008629		0034		14501	800												
024	OBS	0049	-0169	34657	2792						14418	782												
	STD	0050	-0169	3466	2792		0001930		0045		14418	780												
024	OBS	0074	-0167	34705	2796						14424	753												
	STD	0075	-0166	3471	2796		0001542		0049		14424	753												
024	OBS	0099	-0137	34775	2800						14443	759												
	STD	0100	-0134	3478	2801		0001095		0052		14444	759												
	STD	0125	-0075	3484	2803		0000857		0055		14477	760												
024	OBS	0149	-0037	34895	2806						14499	761												
	STD	0150	-0036	3490	2806		0000575		0056		14500	761												
	STD	0200	-0018	3496	2810		0000222		0058		14517	758												
024	OBS	T0200	-0018	34958	2810						14517	738												
	STD	0250	-0049	3497	2812		-0000012		0059		14511	719												
024	OBS	T0258	-0058	34968	2813						14509	716												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.						10°	1°	MD		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
311165	EW		76295N	051350E		283	61	09	12	058	1967	072		0329	04	01	2			6	8	0075
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB														
		06	27	04	507	132	-004		-014		8	10										
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PD4-P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	Si D ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C		
		STD	0000	0180	3365	2693		0011378		0000		14555	783									
059		OBS	0000	0180	33646	2693						14555	783									
059		OBS	0005	0178	33650	2693						14555	793									
059		OBS	0009	0170	33676	2695						14557	787									
		STD	0010	0179	3368	2695		0011139		0011		14557	787									
		STD	0020	0181	3369	2696		0011076		0022		14559	787									
059		OBS	0024	0181	33691	2696						14560	787									
		STD	0030	0063	3401	2729		0007878		0032		14513	786									
059		OBS	0049	-0168	34666	2792						14418	778									
		STD	0050	-0167	3467	2793		0001859		0042		14419	777									
059		OBS	0073	-0149	34724	2797						14432	756									
		STD	0075	-0148	3473	2797		0001443		0046		14433	757									
059		OBS	0098	-0136	34778	2801						14443	762									
		STD	0100	-0128	3479	2801		0001039		0049		14447	761									
		STD	0125	-0048	3486	2804		0000826		0051		14490	755									
059		OBS	0146	-0009	34905	2805						14512	752									
		STD	0150	-0009	3491	2806		0000637		0053		14512	752									
059		OBS	T0195	-0015	34925	2807						14517	751									
		STD	0200	-0016	3493	2808		0000468		0056		14518	750									
		STD	0250	-0033	3494	2810		0000261		0058		14519	735									
		STD	0300	-0061	3496	2812		-0000011		0058		14514	707									
059		OBS	T0302	-0062	34959	2812						14514	706									

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	YEAR	DRIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																													
							CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYP	AMT																														
311165	EW	76125N	053230E	283	63 09 12	086	1967		J71	0115	01	01	2			5	8	0076																													
<table><tr><th colspan="3">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mb)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS. CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th>SPEED OF FORCE</th><th>DIR.</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td>35</td><td>31</td><td>32</td><td>S10</td><td></td><td>125</td><td>023</td><td>008</td><td>8</td><td>07</td><td></td></tr></table>																			WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DIR.	DRY BULB	WET BULB	35	31	32	S10		125	023	008	8	07	
WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																					
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DIR.		DRY BULB	WET BULB																																								
35	31	32	S10		125	023	008	8	07																																						

MISSING TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0289	3429	2735	0007368	0000	14612	759							
	086	OBS	0000	0289	34287	2735			14612	759							
	086	OBS	0005	0288	34282	2735			14612	762							
		STD	0010	0286	3428	2735	0007371	0007	14612	762							
	086	OBS	0010	0286	34284	2735			14612	762							
		STD	0020	0287	3429	2735	0007374	0015	14614	764							
	086	OBS	0024	0288	34287	2735			14615	765							
		STD	0030	0163	3442	2756	0005399	0021	14563	787							
	086	OBS	0049	-0092	34726	2795			14455	817							
		STD	0050	-0092	3473	2795	0001640	0028	14455	814							
	086	OBS	0074	-0039	34854	2805			14458	765							
		STD	0075	-0100	3486	2806	0000616	0031	14457	764							
	086	OBS	0097	-0146	34930	2813			14440	749							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER						DIR	HGT			PER	SEA	TYPE	AMT				
311165	EW	75570N	055080E	283 55 09 12 116	1967	070	0002	01	01	2					5	8	0077	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
04	30	34	S12	120	013	002	7	03										

MISSING TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0195	3422	2738	0007103	0000	14570	784							
	116	OBS	0000	0195	34224	2738			14570	784							
	116	OBS	0005	0193	34229	2738			14570	790							
		STD	0010	0193	3423	2738	0007084	0007	14571	802							
	116	OBS	0010	0193	3423	2738			14571	802							
		STD	0020	0194	3423	2738	0007098	0014	14573	794							
	116	OBS	0025	0175	3422	2738			14574	791							
		STD	0030	017	3423	2741	0000001	0021	14568	788							
		STD	0050	0032	3452	2772	0003825	0032	14509	779							
	116	OBS	0065	-0163	34663	2803			14423	776							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	MARS DEN SQUARE 10' 1'	STATION TIME (GMT) MO DAY HR 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	IO. NO.								CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	75375N	056310E	283 56 09 12 143		1967		069		0166	02	01	2			50	5	8	0078
WATER																				
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	WIND	BARO-METER (mb)	AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
11		02	36	S12		105	014	006	8	08										

MISSING TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0422	3335	2648	0015618	0000	14656	734							
	143	OBS	0000	0422	33354	2648			14656	734							
	143	OBS	0005	0422	33352	2648			14657	735							
		STD	0010	0423	3335	2648	0015644	0016	14658	735							
	143	OBS	0010	0423	33353	2648			14658	735							
		STD	0020	0408	3365	2689	0011765	0029	14660	743							
	145	OBS	0020	0380	34086	2710			14652	750							
		STD	0030	0324	3420	2725	0008349	0039	14630	759							
		STD	0050	0104	3462	2776	0003491	0051	14545	801							
	145	OBS	0052	0087	34648	2779			14536	803							
		STD	0075	-0034	3476	2795	0001661	0058	14486	754							
	145	OBS	0078	-0043	34766	2796			14483	750							
		STD	0100	-0056	3479	2798	0001327	0061	14481	740							
	145	OBS	0104	-0058	34796	2799			14481	739							
		STD	0125	-0059	3482	2801	0001079	0064	14484	733							
		STD	0150	-0061	3483	2802	0000490	0067	14467	726							
	145	OBS	0151	-0061	34835	2802			14488	728							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT			
311165		EW	74510N	054340E		283	44	09	12	195	1967		082		0174	02	02	1				5	8	0079	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
									32	S13	117	027	015	8	08										
MESSAGE TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	CTD CODE					
			STD	0000	0473	3394	2689		0011709		0003	14685	720												
195			OBS	0000	0473	33943	2689					14685	720												
195			OBS	0005	0472	33922	2687					14685	732												
			STD	0010	0473	3393	2688		0011801		0012	14686	736												
195			OBS	0010	0473	33932	2688					14686	736												
			STD	0020	0456	3418	2710		0009771		0023	14684	743												
195			OBS	0025	0432	34303	2722					14677	746												
			STD	0030	0354	3446	2743		0006664		0031	14647	750												
			STD	0050	0137	3485	2792		0001965		0039	14561	764												
195			OBS	0051	0130	34863	2794					14558	765												
			STD	0075	0083	3487	2797		0001450		0044	14541	750												
195			OBS	0075	0083	34872	2797					14541	750												
			STD	0100	0022	3486	2800		0001185		0047	14518	732												
195			OBS	0101	0019	34855	2800					14516	731												
			STD	0125	-0047	3486	2804		0000830		0049	14490	735												
			STD	0150	-0123	3487	2807		0000466		0051	14459	761												
195			OBS	0156	-0149	34867	2808					14448	774												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311165		EW	75055N	052550E		283	52	09	12	229	1967		081		0183	02	01	2				5	8	0080	
						WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
									3G	S15	099	027	015	8	07										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · ml ⁻¹	TOTAL-P μg · ml ⁻¹	NO ₂ -N μg · ml ⁻¹	NO ₃ -N μg · ml ⁻¹	SiO ₄ -Si μg · ml ⁻¹	pH	CTD CODE							
		STD	0000	0291	3413	2722	0008608		0000	14610	786														
229		OBS	0000	0291	34125	2722				14610	786														
229		OBS	0005	0290	34120	2721				14611	781														
		STD	0010	0290	3412	2721	0008651		0009	14611	782														
229		OBS	0010	0290	34119	2721				14611	782														
		STD	0020	0181	3433	2747	0006205		0016	14568	789														
		STD	0030	0092	3451	2768	0004247		0021	14533	795														
		STD	0050	-0032	3475	2794	0001765		0027	14483	808														
229		OBS	0050	-0032	34748	2794				14483	808														
		STD	0075	-0081	3484	2803	0000874		0031	14466	769														
229		OBS	0075	-0081	34836	2803				14466	769														
		STD	0100	-0161	3483	2806	0000625		0032	14432	782														
229		OBS	0101	-0163	34829	2806				14432	782														
		STD	0125	-0165	3485	2807	0000447		0034	14435	774														
		STD	0150	-0166	3491	2812	-0000031		0034	14439	765														
229		OBS	0165	-0169	34959	2816				14441	760														

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	75205N	051100E		283	51	09	13	018	1967		080		0183	02	36	2			40	6	8	0081
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								01	S11	118	013	002	7	08										
MESSAGE TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH						
			STD	0000	0322	3440	2740	0006839		0000	14627	767												
	018		OBS	0000	0322	34395	2740				14627	767												
	018		OBS	0005	0322	34395	2740				14628	769												
			STD	0010	0322	3439	2740	0006676		0007	14629	768												
	018		OBS	0010	0322	34391	2740				14629	768												
			STD	0020	0324	3440	2741	0006835		0014	14632	767												
	018		OBS	0024	0325	34403	2741				14633	767												
			STD	0030	0300	3445	2747	0006252		0020	14624	776												
	018		OBS	0049	0180	34590	2768				14576	793												
			STD	0050	0165	3460	2770	0004056		0031	14570	793												
	018		OBS	0073	-0065	34794	2799				14472	785												
			STD	0075	-0065	3480	2800	0001216		0037	14473	785												
	018		OBS	0098	-0072	34835	2803				14474	779												
			STD	0100	-0073	3484	2803	0000871		0040	14474	778												
			STD	0125	-0083	3487	2806	0000594		0042	14474	767												
			STD	0150	-0096	3489	2808	0000381		0043	14472	750												
	018		OBS	0163	-0104	34897	2809				14471	739												

REFERENCE	SHIP		LATITUDE	LONGITUDE	DATE	MARDEN SQUARE		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA- THER	CLOUD		NOOC
	CTRY	ID. NO.				10"	1"	MO	DAY	HR, 1/10	CRUISE	STATION			DIR	HGT	PER	SEA		TYPE	AMT	

WATER		WIND		BARO-METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
05	30	34	511	110	013	000	0	0	

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C
		STD	0000	0452	3467	2749	0006005	0000	14886	739							
049		OBS	0000	0452	34673	2749			14886	739							
049		OBS	0005	0452	34674	2749			14887	750							
		STD	0010	0451	3468	2750	0005953	0006	14687	744							
049		OBS	0010	0451	34680	2750			14687	744							
		STD	0020	0452	3468	2750	0005992	0012	14889	740							
049		OBS	0026	0453	34670	2749			14691	746							
		STD	0030	0454	3472	2750	0005992	0018	14671	745							
		STD	0050	0210	3488	2789	0005273	0025	14594	739							
049		OBS	0052	0196	34884	2790			14588	738							
		STD	0075	0047	3489	2798	0005403	0030	14548	749							
049		OBS	0078	0380	34844	2799			14544	750							
		STD	0100	0047	3490	2802	0005023	0033	14530	740							
049		OBS	0105	0039	34902	2803			14527	747							
		STD	0125	0008	3490	2804	0005079	0035	14516	750							
		STD	0150	-0024	3490	2806	0005012	0037	14506	753							
049		OBS	0156	-0030	34903	2806			14504	754							
		STD	0200	-0056	3492	2809	0005019	0039	14499	739							
049		OBS	T0210	-0003	34924	2810			14495	755							
049		OBS	T0230	-0005	34940	2812			14492	711							

REFERENCE	SHIP		LATITUDE	LONGITUDE	DATE	MARDEN SQUARE		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA- THER	CLOUD		NOOC
	CTRY	ID. NO.				10"	1"	MO	DAY	HR, 1/10	CRUISE	STATION			DIR	HGT	PER	SEA		TYPE	AMT	

										WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FCFE	METER (mba)	DRY BULB	WET BULB														
05		30	3	505	110	006	-007	8	04												

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C
		STD	0000	0220	3467	2725	0008304	0000	14579	772							
082		OBS	0000	0220	3467	2725			14579	772							
082		OBS	0005	0220	34693	2725			14580	780							
		STD	0010	0221	3469	2725	0008323	0008	14581	770							
082		OBS	0010	0221	34689	2725			14581	770							
		STD	0020	0270	3410	2720	0008180	0017	14503	760							
082		OBS	0025	0277	34220	2731			14510	764							
		STD	0030	0241	3439	2747	0008212	0024	14597	767							
		STD	0050	0131	3485	2792	00081924	0032	14558	750							
082		OBS	0052	0123	34880	2795			14558	747							
		STD	0075	0071	3491	2802	00081088	0036	14536	751							
082		OBS	0078	0004	34915	2802			14534	751							
		STD	0100	0004	3491	2805	00080692	0036	14510	764							
082		OBS	0104	-0005	34911	2806			14507	766							
		STD	0125	-0023	3491	2807	00080551	0039	14502	764							
		STD	0150	-0042	3491	2805	00080439	0041	14497	762							
082		OBS	0155	-0040	34914	2808			14496	762							
		STD	0200	-0077	3493	2811	00080145	0042	14490	725							
082		OBS	T0209	-0082	34932	2811			14489	714							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		76071N	045526E		284	65	09	13	113	1967		077		0238	02	35	1			6	8	0084
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB										
						06	20	00	500	097	-004		-014	8	10								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	CTD
		STD	0000	0267	3407	2720	0008817	0000	14599	765							
114	OBS	0000	0267	34071	2720				14599	765							
114	OBS	0005	0268	34068	2719				14600	767							
	STD	0010	0270	3408	2720	0008772	0009		14602	765							
114	OBS	0010	0270	34081	2720				14602	765							
	STD	0020	0277	3411	2722	0008629	0017		14607	764							
114	OBS	0025	0280	34122	2722				14610	761							
	STD	0030	0192	3432	2746	0006365	0025		14575	764							
	STD	0050	-0037	3486	2803	0000887	0032		14482	776							
114	OBS	0051	-0043	34875	2805				14480	777							
	STD	0075	-0042	3490	2806	0000586	0034		14485	766							
114	OBS	0076	-0042	34897	2806				14485	766							
	STD	0100	-0043	3490	2807	0000548	0036		14488	776							
114	OBS	0102	-0043	34905	2807				14489	777							
	STD	0125	-0062	3491	2808	0000418	0037		14484	779							
	STD	0150	-0078	3491	2809	0000342	0038		14481	784							
114	OBS	0153	-0079	34905	2809				14481	784							
	STD	0200	-0089	3494	2812	0000046	0039		14484	750							
114	OBS	T0204	-0092	34939	2812				14484	744							
114	OBS	T0229	-0118	34967	2815				14476	697							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		76205N	044030E		284	64	09	13	152	1967		076		0208	02	35	2			5	8	0085
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB											
						05	28	17	507	052	005	000	8	09									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	CTD
		STD	0000	0153	3354	2686	0012022	0000	14542	790							
153	OBS	0000	0153	33537	2686				14542	790							
153	OBS	0005	0152	33540	2686				14542	800							
153	OBS	0009	0152	33539	2686				14543	785							
	STD	0010	0148	3355	2687	0011692	0012		14541	788							
	STD	0020	0103	3375	2706	0010090	0023		14526	806							
153	OBS	0024	0080	33856	2716				14517	811							
	STD	0030	0004	3414	2743	0006577	0031		14488	796							
153	OBS	0048	-0122	34716	2795				14441	764							
	STD	0050	-0119	3472	2795	0001625	0039		14442	763							
153	OBS	0072	-0056	34825	2801				14477	747							
	STD	0075	-0036	3485	2802	0000965	0043		14487	743							
153	OBS	0095	0059	34945	2805				14535	724							
	STD	0100	0056	3495	2805	0000735	0045		14534	726							
	STD	0125	0039	3494	2806	0000660	0047		14531	738							
153	OBS	0143	0022	34940	2807				14526	745							
	STD	0150	0014	3494	2807	0000534	0048		14523	748							
153	OBS	T0186	-0035	34921	2808				14507	761							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	OBS INSTR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
CITY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311165		EW	75291N	042258E		284	52	09	13	210	1967		089		0279	03	23	4			61	7	6	0086	
						WATER		WIND		BARD- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
										11	513	969		038	048	6	10								
MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₂ -Si μg - ml/l	pH	S CC						
		STD	0000	0311	3420	2726	0008244		0000		14620	759													
210		OBS	0000	0311	34190	2726					14620	759													
210		OBS	0005	0310	34196	2726					14620	758													
		STD	0010	0311	3420	2726	0008220		0008		14622	755													
210		OBS	0010	0311	34200	2726					14622	755													
		STD	0020	0313	3420	2726	0008214		0016		14624	755													
210		OBS	0025	0314	34206	2726					14625	755													
		STD	0030	0188	3435	2748	0006109		0024		14573	767													
210		OBS	0048	-0100	34728	2795					14451	791													
		STD	0050	-0097	3474	2796	0001552		0031		14453	769													
210		OBS	0073	-0067	34833	2802					14472	760													
		STD	0075	-0064	3484	2803	0000915		0034		14474	767													
210		OBS	0097	-0038	34879	2805					14490	757													
		STD	0100	-0038	3488	2805	0000726		0036		14491	757													
		STD	0125	-0033	3490	2806	0000591		0038		14497	759													
210		OBS	0146	-0030	34908	2807					14502	760													
		STD	0150	-0034	3491	2807	0000509		0039		14501	760													
210		OBS	T0195	-0075	34922	2810					14490	755													
		STD	0200	-0079	3492	2810	0000182		0041		14489	753													
		STD	0250	-0115	3495	2814	-0000163		0041		14481	717													
210		OBS	T0266	-0125	34954	2814					14479	697													

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARS DEN	STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD	NO.	NO.	
CRUISE	NO.	CODE	1/10	1/10	SQUARE	MO	DAY	HR. 1/10		CRUISE	STATION	TO	DEPTH	DIR.	HGT.	PER	SEA	CODE	TYPE	AMT	STATION	
					10'	1'				NO.	NUMBER	BOTTOM	OF								NUMBER	
311165	EW	75065N	044270E	284	54	09	14	013	1967	088		0274	03	1	3			54	6	8	0087	
				WATER		WIND				AIR TEMP. °C												
				COLOR	TRANS.	DIR.	SPEED	BARD-		DRY		WET		VIS.		NO.						
				CODE	(m)		OR FORCE	METER		BULB		BULB		CODE		OBS.						
								11	524	93b	046	039	8	10								
MISSING	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME		Σ Δ σ		SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₂ -Si	pH	S		
TIME	NO.	TYPE							ANOMALY-20°	DTM. M.	x 10 ³	VELOCITY		μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l		CC		
HR 1/10																						
		STD	0000	0511	3460	2737			0007198	0000		14704	716									
	014	OBS	0000	0511	34579	2737						14709	716									
	014	OBS	0006	0511	34604	2737						14710	720									
		STD	0010	0512	3460	2736			0007251	0007		14711	718									
	014	OBS	0010	0512	34545	2736						14711	718									
		STD	0020	0518	3460	2736			0007288	0014		14715	714									
	014	OBS	0026	0521	34623	2737						14718	712									
		STD	0030	0460	3469	2750			0005995	0021		14694	712									
		STD	0050	0229	3491	2790			0002204	0024		14672	714									
	014	OBS	0050	0229	34904	2790						14672	714									
		STD	0075	0107	3491	2799			0001308	0034		14555	740									
	014	OBS	0075	0107	34911	2799						14555	740									
		STD	0100	0024	3490	2803			0000922	0037		14519	763									
	014	OBS	0100	0024	34896	2803						14519	763									
		STD	0125	-0023	3489	2805			0000718	0039		14502	762									
		STD	0150	-0055	3489	2807			0000542	0040		14489	761									
	014	OBS	0151	-0060	34889	2807						14489	761									
		STD	0200	-0094	3490	2809			000306	0042		14481	767									
	014	OBS	T0200	-0094	34899	2809						14481	767									
		STD	0250	-0113	3493	2812			-0000025	0043		14481	760									
	014	OBS	T0271	-0116	34956	2814						14484	690									

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT INCR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	EW		74530N	046180E		284	46	09	14	047	1967		087	0275	02	07	3		50	618		0088
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB										
						06	27	06	S18	946	031	023	7	10								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
		STD	0000	0537	3474	2745	0006427		0000		14722	710										
047		OBS	0000	0537	34741	2745					14722	710										
047		OBS	0006	0537	34746	2745					14723	714										
		STD	0010	0537	3474	2745	0006417		0006		14724	724										
047		OBS	0010	0537	34744	2745					14724	724										
		STD	0020	0538	3474	2745	0006445		0013		14726	719										
047		OBS	0025	0538	34742	2745					14726	718										
		STD	0030	0537	3474	2745	0006445		0019		14727	719										
		STD	0050	0531	3475	2746	0006369		0032		14728	720										
047		OBS	0050	0531	34748	2746					14728	720										
		STD	0075	0228	3486	2786	0002558		0043		14605	716										
047		OBS	0076	0220	34868	2787					14602	716										
		STD	0100	0147	3489	2795	0001750		0049		14574	729										
047		OBS	0101	0144	34895	2795					14573	729										
		STD	0125	0102	3490	2798	0001372		0053		14558	731										
		STD	0150	0062	3490	2801	0001120		0056		14545	734										
047		OBS	0152	0059	34905	2802					14544	734										
		STD	0200	-0004	3491	2806	0000662		0060		14523	728										
047		OBS	T0246	-0048	34910	2808					14510	712										

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT INCR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	EW		74390N	046000E		284	48	09	14	079	1967		086	0256	02	02	3		85	617		0089
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB										
						05	27	01	S15	955	028	011	7	10								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
		STD	0000	0515	3468	2742	0006657		0000		14712	710										
		OBS	0000	0515	34677	2742					14712	710										
079		OBS	0006	0502	34672	2743					14708	742										
		STD	0010	0516	3467	2742	0006711		0007		14714	716										
079		OBS	0010	0516	34673	2742					14714	716										
		STD	0020	0517	3468	2742	0006677		0013		14716	717										
079		OBS	0027	0517	34682	2742					14717	718										
		STD	0030	0512	3468	2743	0006615		0020		14716	719										
		STD	0050	0478	3469	2748	0006200		0033		14705	727										
079		OBS	0052	0475	34693	2748					14704	728										
		STD	0075	0103	3487	2796	0001593		0043		14550	739										
079		OBS	0079	0068	34879	2799					14535	742										
		STD	0100	0054	3486	2798	0001399		0046		14532	760										
079		OBS	0105	0051	34850	2798					14532	763										
		STD	0125	0037	3488	2801	0001119		0049		14529	757										
		STD	0150	0018	3491	2804	0000784		0052		14525	750										
079		OBS	0158	0011	34915	2805					14523	748										
		STD	0200	-0031	3492	2808	0000451		0055		14511	740										
079		OBS	T0212	-0042	34920	2808					14508	732										
079		OBS	T0236	-0061	34921	2809					14503	708										

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT FOOT	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TIME	
311165	EW	74243N	049373E	284	49	09 14 112	1967		085		0144	01	03	4					6	7		0090
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB																
06	20	03	S15	975	019	006	7	08														
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C					
		STD	0000	0414	3440	2732	0007676	0000	14666	745												
113		OBS	0000	0414	34399	2732			14666	745												
113		OBS	0006	0413	34403	2732			14667	742												
		STD	0010	0414	3440	2732	0007669	0008	14666	744												
113		OBS	0011	0414	34401	2732			14668	744												
		STD	0020	0414	3440	2732	0007673	0015	14670	743												
113		OBS	0027	0414	34403	2732			14671	743												
		STD	0030	0343	3444	2742	0006713	0023	14642	751												
		STD	0050	-0003	3466	2785	0002576	0032	14495	783												
113		OBS	0053	-0035	34688	2789			14461	785												
		STD	0075	-0083	3483	2803	0000912	0036	14465	764												
113		OBS	0080	-0095	34849	2805			14460	762												
		STD	0100	-0158	3485	2807	0000481	0038	14434	766												
113		OBS	0106	-0162	34853	2807			14433	767												
113		OBS	0124	-0133	34894	2810			14451	740												

REFERENCE	SHIP	LATITUDE	LONGITUDE	DATE	MARSDEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX. DEPTH	WAVE	WEA-	CLOUD	NOOC							
CTRY	IO.				10'	1"	MO	DAY	HR	1/10	CRUISE	STATION	TO	OF	OBS.	THR	CODES	TYPE	AMT	STATION	
CODE	NO.										NO.	NUMBER	BOTTOM	OF	SAMPLES	DIR.	WGT	PER	SEA		
311165	EW	74105N	051153E	283	41	09	14	143	1967		084		0166	01		36	5			08	0071
WATER		WIND		BARO-		AIR TEMP. °C		VIS.	NO.	SPECIAL											
COLOR	TRANS.	DIR.	SPEED	METER	OR	DRY	WET														
CODE	MM	°	MPH	(mb)	(mb)	BULB	BULB	CODE	DEPTHS	OBSERVATIONS											
06	20	35	S18	980	012	001	7	08													
MESSAGE	CARD	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S				
TIME	NO.																				
HR	1/10																				
		STD	0000	0341	3422	2725	0008344	0000	14633	759											
143		OBS	0000	0341	34218	2725			14633	759											
143		OBS	0005	0341	34210	2724			14634	761											
		STD	0010	0342	3422	2724	0008376	0008	14635	762											
143		OBS	0010	0342	34216	2724			14635	762											
		STD	0020	0342	3422	2724	0008391	0017	14637	763											
143		OBS	0025	0342	3414	2724			14638	763											
		STD	0030	0242	3434	2743	0006558	0024	14547	782											
		STD	0050	-0037	3477	2791	0002077	0033	14480	814											
143		OBS	0050	-0037	3477	2791			14480	814											
		STD	0075	-0117	3483	2804	0000805	0037	14444	762											
143		OBS	0075	-0117	34827	2804			14449	761											
		STD	0100	-0143	3483	2805	0000677	0038	14441	768											
143		OBS	0110	-0155	3485	2807			14437	771											
		STD	0125	-0160	3489	2811	0000132	0039	14434	767											
143		OBS	0139	-0170	34937	2815			14432	750											

REFERENCE		SHIP CODE	LATITUDE ° 1' 10"	LONGITUDE ° 1' 10"	MARSDEN SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					0"	1"	MO		DAY	HR			1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT	
311165	EW		7356N	052530E	283	30	09	14	172	1967	083	0125	01	01	4			3d	06	0092
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. MM	DIR.	SPEED OF PERFECT	METER (mb)	DRY BULB	WET BULB														
			30	20	970	016	011	7	08											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY=18°	Σ Δ σ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C			
		STD	0000	0531	3375	2667	0013801	0000	14706	741										
173		OBS	0030	0531	33748	2667			14706	741										
173		OBS	0005	0532	33722	2667			14707	714										
173		OBS	0009	0533	33762	2668			14709	712										
		STD	0010	0532	3382	2673	0013283	0014	14709	713										
		STD	0020	0513	3433	2715	0004260	0023	14710	718										
173		OBS	0024	0501	34474	2718			14708	723										
		STD	0030	0480	3454	2736	0007333	0033	14701	725										
173		OBS	0046	0372	34703	2760			14661	742										
		STD	0050	0342	3472	2764	0004611	0045	14649	747										
173		OBS	0072	0119	34817	2791			14556	768										
		STD	0075	0117	3482	2791	0002065	0053	14556	753										
173		OBS	0096	0091	34837	2794			14548	729										
		STD	0100	0084	3484	2794	0001743	0058	14543	722										
173		OBS	0122	0030	34826	2797			14524	681										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311165		EW	72575N	051370E	283	21	09	14 227	1967		096	0037	01	01	4			73	7	8		0093
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								01	S21	979		010	006	6	00							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH					
		STD	0000	0596	3380	2663		0014182	0000	14733	702											
	228	OBS	0000	0596	33797	2663				14733	702											
	228	OBS	0006	0594	33799	2663				14733	704											
		STD	0010	0596	3379	2663		0014219	0014	14735	703											
	228	OBS	0011	0596	33792	2663				14735	703											
		STD	0020	0599	3435	2706		0010105	0026	14745	703											
	228	OBS	0027	0601	34644	2729				14751	703											
		STD	0030	0526	3465	2739		0007020	0035	14721	727											
		STD	0050	0137	3470	2780		0003102	0045	14559	819											
	228	OBS	0054	0083	34709	2784				14536	823											
		STD	0075	-0073	3479	2799		0001259	0050	14469	770											
	228	OBS	T0083	-0075	34835	2803				14470	716											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
311165		EW	73110N	050080E	283	30	09	15 025	1967		095	0236	02	36	7			5	8		0094				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB													
									36	S22	996	014	000	8	09										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	STATION NUMBER								
		STD	0000	0668	3470	2725	0008339	0000	14774	692															
	026	OBS	0000	0668	34698	2725			14774	692															
	026	OBS	0006	0667	34694	2724			14775	689															
		STD	0010	0669	3470	2724	0008377	0008	14776	691															
	026	OBS	0011	0669	34696	2724			14776	691															
		STD	0020	0669	3469	2724	0008413	0017	14778	691															
	026	OBS	0023	0669	34692	2724			14778	691															
		STD	0030	0654	3470	2727	0008200	0025	14773	691															
		STD	0050	0591	3472	2736	0007289	0041	14752	689															
	026	OBS	0052	0585	34722	2737			14750	689															
		STD	0075	0319	3484	2776	0003515	0054	14644	699															
	026	OBS	0078	0299	34848	2779			14636	700															
		STD	0100	0279	3491	2785	0002648	0062	14632	702															
	026	OBS	0104	0274	34913	2786			14631	703															
		STD	0125	0221	3491	2791	0002152	0068	14611	709															
		STD	0150	0167	3491	2795	0001750	0073	14592	716															
	026	OBS	0158	0151	34912	2796			14586	718															
		STD	0200	0083	3498	2806	0000658	0079	14563	730															
	026	OBS	T0206	0075	34998	2808			14561	732															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT MOYON	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	73228N	048363E		284	38	09	15	068	1967		094	0265	02	35	9			18	6	6	0095
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)	DRY BULB	WET BULB											
									01	S24	015	017	009	5	09								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH					
		STD	0000	0610	3472	2734	0007448		0000		14751	703											
	069	OBS	0000	0610	34720	2734					14751	703											
	069	OBS	0005	0611	34719	2734					14752	716											
		STD	0010	0612	3472	2734	0007457		0007		14754	714											
	069	OBS	0010	0612	34724	2734					14754	714											
		STD	0020	0612	3473	2734	0007463		0015		14755	701											
	071	OBS	0024	0612	34726	2734					14756	697											
		STD	0030	0518	3476	2749	0006106		0022		14719	697											
	071	OBS	0043	0322	34831	2775					14641	699											
		STD	0050	0316	3483	2776	0003513		0031		14639	697											
	073	OBS	0073	0264	34870	2784					14621	696											
		STD	0075	0263	3488	2784	0002719		0039		14621	697											
	073	OBS	0098	0241	34925	2790					14616	704											
		STD	0100	0237	3493	2790	0002178		0045		14614	704											
		STD	0125	0163	3492	2794	0001777		0050		14595	708											
	073	OBS	0149	0131	34921	2798					14576	712											
		STD	0150	0129	3492	2798	0001413		0054		14575	713											
		STD	0200	0015	3492	2805	0000693		0059		14532	737											
	073	OBS	T0221	-0034	34920	2808					14513	747											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARSDEN SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA				TYPE	AMT		
311165		EW	73380N	046580E		284	36	09	15	170	1967		093		0274	02	15	0			518		0096			
						WATER		WIND		AIR TEMP. °C		BARO- METER (mba)	DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE																	
									02	S21	118	017	-001	8	10											
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C								
		STD	0000	0585	3475	2740	0006921		0000	14742	714															
170		OBS	0000	0585	34750	2740				14742	714															
170		OBS	0005	0585	34748	2739				14742	708															
170		OBS	0009	0585	34749	2739				14743	705															
		STD	0010	0585	3475	2739	0006943		0007	14743	705															
		STD	0020	0586	3475	2739	0006972		0014	14745	704															
170		OBS	0024	0566	34747	2739				14746	703															
		STD	0030	0585	3475	2739	0006992		0021	14746	703															
170		OBS	0048	0582	34743	2739				14748	703															
		STD	0050	0546	3476	2745	0006452		0034	14734	703															
170		OBS	0072	0262	34929	2788				14621	703															
		STD	0075	0252	3493	2789	0002249		0045	14617	712															
170		OBS	0096	0185	34945	2796				14591	761															
		STD	0100	0160	3494	2797	0001524		0050	14584	760															
		STD	0125	0078	3493	2802	0000989		0053	14543	754															
170		OBS	0145	0022	34922	2805				14526	752															
		STD	0150	0013	3492	2805	0000680		0055	14523	754															
170		OBS	T0192	-0049	34910	2806				14501	755															
		STD	0200	-0058	3492	2809	0000348		0058	14498	753															
170		OBS	T0229	-0086	34935	2811				14490	739															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARSDEN SQUARE	STATION TIME IGMT1		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
CTRY CODE	ID. NO.						CRUISE NO.	STATION NUMBER		DIR.	HGT			PER	SEA					
311165		EW	73500N	045225E		284	35	07	15	1967	092	0325	03	04	8		75	518	0097	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB								
									36	S19	154	017	007	8	10					
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C		
		STD	0000	0541	3473	2744	0006532		0000	14723	731									
209		OBS	0000	0541	34733	2744				14723	731									
209		OBS	0005	0542	34735	2744				14725	714									
		STD	0010	0542	3474	2744	0006534		0007	14726	714									
209		OBS	0010	0542	34736	2744				14726	714									
		STD	0020	0543	3474	2744	0006556		0013	14728	709									
209		OBS	0023	0543	34736	2744				14728	706									
		STD	0030	0405	3477	2762	0004826		0019	14673	749									
209		OBS	0046	0151	34830	2789				14566	805									
		STD	0050	0099	3484	2794	0001789		0025	14544	801									
209		OBS	0070	-0072	34872	2806				14470	780									
		STD	0075	-0076	3487	2806	0000612		0028	14469	783									
209		OBS	0093	-0099	34881	2807				14465	774									
		STD	0100	-0093	3488	2807	0000468		0030	14465	775									
		STD	0125	-0102	3489	2806	0000394		0031	14465	777									
209		OBS	0142	-0106	34889	2808				14466	778									
		STD	0150	-0106	3489	2809	0000340		0032	14467	773									
209		OBS	T0191	-0111	34915	2811				14472	750									
		STD	0200	-0113	3492	2811	0000067		0033	14473	745									
		STD	0250	-0133	3495	2814	-0000258		0032	14472	719									
209		OBS	T0260	-0150	34971	2817				14470	705									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT										
311	165	EW	74056N	043343E		284	43	09	16	010	1967	091		0339	03	01	5				5	8	0098									
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																				
								02	S12	172		016	003	8	10																	
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C															
		STD	0000	0441	3464	2748	0006139	0000	14681	787																						
	010	OBS	0000	0441	34640	2748			14681	787																						
	010	OBS	0006	0441	34637	2748			14682	736																						
		STD	0010	0441	3464	2747	0000187	0006	14683	733																						
	010	OBS	0011	0441	34635	2747			14683	732																						
		STD	0020	0442	3464	2748	0006166	0012	14685	733																						
	010	OBS	0027	0442	34644	2748			14686	733																						
		STD	0030	0376	3468	2758	0005217	0018	14659	744																						
		STD	0050	0044	3486	2799	0001305	0025	14519	789																						
	010	OBS	0054	0001	34875	2803			14501	793																						
		STD	0075	-0068	3487	2805	0000669	0027	14472	776																						
	010	OBS	0082	-0083	34868	2806			14467	772																						
		STD	0100	-0099	3487	2807	0000543	0029	14462	772																						
	010	OBS	0109	-0105	34870	2807			14461	768																						
		STD	0125	-0114	3487	2807	0000485	0030	14459	732																						
		STD	0150	-0123	3487	2807	0000458	0031	14459	697																						
	010	OBS	0165	-0124	34864	2807			14461	690																						
		STD	0200	-0108	3490	2809	0000240	0033	14475	735																						
	010	OBS	T0221	-0105	34923	2811			14480	750																						
		STD	0250	0108	3494	2813	-0000080	0033	14484	734																						
		STD	0300	-0132	3496	2815	-0000349	0032	14481	706																						
	010	OBS	T0329	-0158	34966	2816			14474	690																						

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER										
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT											
311	165	EW	74185N	042080E		284	42	09	16	052	1967	090		0248	02	30	5				6	7	0099										
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																		
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																					
								06	32	30	S13	197	016	002	8	10																	
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C																
		STD	0000	0379	3423	2722	0008615	0000	14649	744																							
	052	OBS	0000	0379	34229	2722			14649	744																							
	052	OBS	0005	0381	34218	2721			14651	750																							
		STD	0010	0379	3423	2722	0008601	0009	14651	754																							
	052	OBS	0010	0379	34232	2722			14651	754																							
		STD	0020	0380	3425	2723	0008479	0017	14653	753																							
	052	OBS	0026	0380	34260	2724			14654	752																							
		STD	0030	0282	3438	2743	0006625	0025	14615	763																							
		STD	0050	-0062	3477	2799	0001310	0033	14470	792																							
	052	OBS	0052	-0083	34814	2802			14461	793																							
		STD	0075	-0145	3482	2804	0000763	0035	14436	772																							
	052	OBS	0077	-0147	34826	2805			14435	770																							
		STD	0100	-0116	3486	2806	0000578	0037	14454	790																							
	052	OBS	0103	-0113	34860	2806			14456	791																							
		STD	0125	-0110	3487	2807	0000464	0038	14461	786																							
		STD	0150	-0106	3489	2808	0000357	0039	14468	775																							
	052	OBS	0154	-0105	34890	2809			14469	773																							
		STD	0200	-0106	3492	2811	0000096	0040	14476	741																							
	052	OBS	T0208	-0109	34930	2812			14476	731																							
	052	OBS	T0240	-0127	34954	2814			14473	680																							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CHRY CODE	ID. NO.					10°	1°	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
311165		EW	73188N	041140E		284	31	09	16	111		1967		103	0301	03	01	3				617		0100
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. M	DIR.	SPED OR FORCE	METER (mbars)		DRY BULB	WET BULB											
						06	27	31	S13	206		044	029	8	10									
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SC					
		STD	0000	0513	3458	2735		0007370		0000	14710	720												
	111	OBS	0000	0513	34579	2735					14710	720												
	111	OBS	0004	0515	34575	2734					14711	726												
	111	OBS	0009	0514	34572	2734					14712	728												
		STD	0010	0514	3457	2734		0007446		0007	14712	727												
		STD	0020	0515	3458	2734		0007444		0015	14714	720												
	111	OBS	0023	0515	34576	2734					14715	710												
		STD	0030	0306	3468	2765		0004569		0021	14629	773												
	111	OBS	0047	-0029	34833	2801					14485	836												
		STD	0050	-0042	3484	2802		0001017		0020	14460	824												
	111	OBS	0069	-0101	34862	2806					14456	772												
		STD	0075	-0103	3486	2806		0000574		0028	14456	773												
	111	OBS	0095	-0108	34869	2807					14457	774												
		STD	0100	-0111	3487	2807		0000490		0030	14450	775												
		STD	0125	-0121	3487	2807		0000444		0031	14456	779												
	111	OBS	0142	-0122	3487	2808					14458	782												
		STD	0150	-0117	3489	2809		0000297		0032	14462	774												
	111	OBS	0189	-0103	34928	2812					14476	741												
		STD	0200	-0103	3494	2812		-0000044		0032	14478	733												
		STD	0250	-0122	3497	2816		-0000367		0031	14478	704												
	111	OBS	0283	-0153	34981	2818					14469	692												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CHRY CODE	ID. NO.					10°	1°	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
311165		EW	73185N	041244E		284	32	09	16	143		1967		102	0334	03	02	3				618	0101
		WATER		WIND		BARO- METER		AIR TEMP. °C															
		COLOR CODE	TRANS. M	DIR.	SPED OR FORCE	METER (mbars)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		06	24	34	S10	205		035	027	0	10												
		STD	0000	0407	3458	2738	0007084	0000	14699	728													
	143	OBS	0000	0487	3457	2738			14699	728													
	143	OBS	0005	0488	34581	2738			14701	738													
	143	OBS	0007	0487	34583	2738			14701	738													
		STD	0010	0487	3458	2738	0007066	0007	14711	737													
		STD	0020	0488	3458	2738	0007077	0014	14703	730													
	143	OBS	0025	0488	34584	2738			14704	720													
		STD	0030	0333	3466	2759	0005149	0020	14609	743													
		STD	0050	-0014	3466	2802	0001000	0026	14493	780													
	143	OBS	0050	-0014	3465	2802			14493	780													
		STD	0075	-0032	3467	2806	000584	0028	14466	755													
	143	OBS	0075	-0031	34674	2806			14466	910													
	143	OBS	0094	-0088	34691	2807			14467	743													
		STD	0100	-0088	3469	2808	0000418	0030	14467	744													
		STD	0145	-0057	3469	2808	0000363	0031	14468	762													
		STD	0150	-0105	3470	2809	0000307	0031	14468	779													
	143	OBS	0151	-0105	34695	2809			14468	780													
		STD	0200	-0104	3474	2813	-0000048	0032	14477	747													
	143	OBS	0202	-0104	34745	2813			14478	746													
		STD	0250	-0110	3497	2815	-0000350	0031	14465	710													
		STD	0300	-0147	3498	2817	-0000561	0029	14474	692													
	143	OBS	0310	-0159	34983	2818			14471	684													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	EW		72502N	044280E		284	24	09	16	178	1967		101	0306	03	01	5			517		0102
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB									
									02	532	197	034	017	8	10							
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
		STD	0000	0574	3469	2736	0007231		0000	14736	700											
178		OBS	0000	0574	34691	2736				14736	700											
178		OBS	0005	0572	34692	2737				14736	710											
		STD	0010	0574	3469	2736	0007237		0007	14738	708											
178		OBS	0010	0574	34692	2736				14738	708											
		STD	0020	0573	3470	2737	0007214		0014	14739	708											
178		OBS	0027	0573	34698	2737				14740	708											
		STD	0030	0532	3472	2744	0006565		0021	14725	707											
		STD	0050	0336	3483	2774	0003726		0032	14647	697											
178		OBS	0053	0318	34847	2777				14641	695											
		STD	0075	0305	3493	2785	0002710		0040	14640	700											
178		OBS	0080	0293	34945	2787				14636	704											
		STD	0100	0206	3495	2795	0001739		0045	14601	740											
178		OBS	0106	0179	34953	2797				14590	748											
		STD	0125	0063	3492	2803	0000971		0049	14541	758											
		STD	0150	-0046	3408	2805	0000679		0051	14495	768											
178		OBS	0157	-0067	34876	2806				14486	770											
		STD	0200	-0093	3488	2807	0000471		0054	14482	774											
178		OBS	T0211	-0098	34878	2807				14481	775											
		STD	T0250	-0110	3490	2810	0000216		0055	14482	758											
178		OBS	T0298	-0113	34954	2814				14490	714											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT		
311165	EW		72363N	045240E		284	25	09	16	212	1967		100	0291	03	01	2		51	517		0103	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB										
									30	502	193	036	027	8	10								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C						
		STD	0000	0674	3469	2723	0008499	0000	14776	692													
212		OBS	0000	0674	34687	2723			14776	692													
212		OBS	0005	0673	34687	2723			14777	693													
		STD	0010	0674	3469	2723	0008470	0008	14778	692													
212		OBS	0010	0674	34673	2723			14778	692													
		STD	0020	0675	3469	2723	0008502	0017	14760	691													
212		OBS	0024	0675	34691	2723			14781	690													
		STD	0030	0572	3473	2740	0006956	0025	14741	693													
212		OBS	0040	0345	34649	2774			14651	702													
		STD	0050	0343	3465	2775	0003641	0035	14651	702													
212		OBS	0074	0277	34941	2788			14628	708													
		STD	0075	0274	3494	2788	0002353	0043	14626	709													
212		OBS	0098	0200	34943	2795			14598	702													
		STD	0100	0189	3494	2795	0001683	0048	14594	735													
		STD	0125	0075	3492	2802	0001046	0051	14547	761													
212		OBS	0147	0006	34908	2805			14519	772													
		STD	0150	0003	3491	2805	0000701	0053	14518	771													
212		OBS	T0198	-0037	34927	2809			14508	755													
		STD	T0200	-0039	3493	2809	0000326	0056	14507	754													
		STD	0250	-0081	3494	2812	0000039	0057	14496	722													
212		OBS	T0280	-0107	34949	2813			14489	695													

REFERENCE		SHIP CODE	LATITUDE * 1°/10	LONGITUDE * 1°/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF OBSERVATIONS		WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					MO	DAY		HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	
311	105	EW	72270N	047150E	284	27	09 17 007	1967		099	0237	02	36	2			5 7	0104
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
			27	508	192	043	027	6	09									

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0660	3464	2720	0008754	0000	14772	689							
	007	OBS	0000	0666	34639	2720			14772	688							
	007	OBS	0005	0667	34630	2719			14774	696							
		STD	0010	0666	3463	2719	0008836	0009	14774	689							
	007	OBS	0010	0660	34630	2719			14774	689							
		STD	0020	0660	3463	2719	0008859	0018	14776	688							
	007	OBS	0024	0666	34629	2719			14776	688							
		STD	0030	0569	3467	2735	0007369	0026	14739	688							
	007	OBS	0049	0356	34769	2767			14655	688							
		STD	0050	0352	3477	2767	0004328	0037	14653	688							
	007	OBS	0073	0289	34791	2775			14631	692							
		STD	0073	0287	3400	2776	0003530	0047	14630	692							
	007	OBS	0096	0265	34644	2781			14625	690							
		STD	0100	0262	3465	2782	0002991	0055	14624	690							
		STD	0125	0231	3485	2785	0002087	0063	14615	692							
	007	OBS	0140	0206	34660	2788			14608	691							
		STD	0150	0204	3466	2788	0002421	0069	14607	691							
		STD	0200	0163	3469	2793	0001914	0060	14598	697							
	007	OBS	10217	0152	34500	2775			14590	699							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDEX	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS	WEA- THIR CODE	CLOUD CODES	NODC STATION NUMBER
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR.	1/10						
311105	EW	72105N	048508E	284	28	03	17	036	1967	098	0110	01	36	2			7 3	0105
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
10	07	26	509	174	038	020	8	07										

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0579	3472	2738	0007081	0000	14739	700							
	037	OBS	0000	0579	34719	2738			14739	700							
	037	OBS	0005	0580	34716	2737			14740	714							
		STD	0010	0579	3472	2738	0007125	0007	14740	700							
	037	OBS	0010	0579	34715	2738			14740	700							
		STD	0020	0580	3471	2737	0007162	0014	14742	734							
	037	OBS	0025	0580	34712	2737			14743	741							
		STD	0030	0480	3474	2751	0005835	0021	14703	735							
		STD	0050	0205	3482	2784	0002090	0029	14591	710							
	037	OBS	0050	0205	34819	2784			14591	710							
		STD	0075	0143	3482	2789	0002243	0035	14567	710							
	037	OBS	0075	0143	34820	2789			14567	710							
	037	OBS	0095	0071	34803	2793			14538	672							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	CRUISE NO.	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	NODC STATION NUMBER	
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DR.	HGT				PER
311105	EW		7155.4	050220E	283	20	09	17	066	1967	097	0117	01	30	2					6	8	0106
WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB																
07	26	27	509	159	040	024	7	07														

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0606	3448	2715	0009210	0000	14747	686							
	066	OBS	0000	0608	34481	2715			14747	686							
	066	OBS	0005	0608	34475	2715			14748	690							
		STD	0010	0608	3448	2715	0009239	0009	14749	686							
	066	OBS	0010	0608	34479	2715			14749	686							
		STD	0020	0605	3453	2720	0009038	0018	14750	689							
	066	OBS	0025	0604	34558	2722			14751	690							
		STD	0030	0543	3460	2733	0007509	0026	14727	713							
		STD	0050	0316	3473	2767	0004527	0038	14638	762							
	066	OBS	0050	0316	34726	2767			14638	762							
		STD	0075	0069	3400	2793	0001911	0046	14534	728							
	066	OBS	0075	0069	34800	2793			14534	728							
		STD	0100	0019	3462	2797	0001510	0050	14516	662							
	066	OBS	0104	0011	34817	2797			14513	649							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE INDEX	MARSOEN SQUARE	STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311	165	EW	70435N	051180E	283	01	09	17	126	1967		110	0101	01	30	2			40	7	8		0107
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
						06	17	26	513	151	053	048	5	06									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0609	3463	2727	0008116	0000	14750	695							
	126	OBS	0000	0609	34629	2727			14750	695							
	126	OBS	0005	0609	34631	2727			14750	696							
		STD	0010	0609	3463	2727	0008107	0008	14751	696							
	126	OBS	0010	0609	34632	2727			14751	696							
		STD	0020	0609	3463	2727	0008114	0016	14753	694							
	126	OBS	0025	0609	34633	2727			14754	693							
		STD	0030	0467	3464	2745	0006445	0024	14697	693							
		STD	0050	0070	3468	2783	0002643	0033	14529	691							
	126	OBS	0050	0070	34678	2783			14529	691							
		STD	0075	0050	3471	2786	0002482	0039	14524	677							
	126	OBS	0085	0042	34721	2788			14522	668							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDEX	MARSOEN SQUARE	STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311	165	EW	70570N	045530E	284	09	09	17	154	1967		109		0115	01	30	2			7	8		0108
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
									29	515	139	064	050	7	07								

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0641	3467	2726	0008228	0000	14763	690							
	155	OBS	0000	0641	34667	2726			14763	690							
	155	OBS	0005	0640	34668	2726			14763	692							
		STD	0010	0639	3467	2726	0008203	0008	14764	693							
	155	OBS	0010	0639	34669	2726			14764	693							
		STD	0020	0639	3467	2726	0008210	0016	14765	686							
	155	OBS	0025	0639	34673	2726			14766	682							
		STD	0030	0523	3469	2742	0006687	0024	14720	696							
		STD	0050	0199	3474	2779	0003247	0034	14587	750							
	155	OBS	0051	0189	34746	2780			14583	753							
		STD	0075	0114	3475	2786	0002576	0041	14554	689							
	155	OBS	0076	0111	34750	2786			14552	687							
	155	OBS	0097	0056	34731	2788			14531	641							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE INDEX	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311	165	EW	71070N	048286E	284	18	09	17	185	1967		108		0146	01	31	6				5	5		0109
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB												
									32	520	115	051	039	8	08									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0660						679							
	185	OBS	0000	0660	34750	27300				679							
	185	OBS	0006	0659	34692	2725			14771	687							
		STD	0010	0659	3469	2725	0008299		14772	685							
	185	OBS	0011	0659	34687	2725			14772	685							
		STD	0020	0660	3469	2725	0008336		14774	684							
	185	OBS	0028	0660	34688	2725			14775	683							
		STD	0030	0620	3469	2730	0007838		14760	691							
		STD	0050	0281	3469	2768	0004290		14622	740							
	185	OBS	0055	0214	34693	2774			14594	743							
		STD	0075	0179	3473	2779	0003186		14582	706							
	185	OBS	0083		34736				694								
		STD	0100	0136	3475	2784	0002724		14567	682							
	185	OBS	0110		34760				668								
		STD	0125	0092	3476	2788	0002370		14552	639							
	185	OBS	0131	0082	34752	2788			14548	624							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT		
311	165	EW	71220N	047000E	284	17	09	17	213	1967	107	0128	01	31	7			5	5	0110	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER	INCHES	DRY BULB	WET BULB	CODE													
			33	515	097	039	033	6	07												

MESSAGE TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	ST CODE
		STD	0000	0692	3465	2717	0009024	0000	14783	664							
213		OBS	0000	0692	34648	2717			14783	664							
213		OBS	0005	0691	34648	2717			14783	668							
		STD	0010	0693	3465	2717	0009067	0009	14785	669							
213		OBS	0010	0693	34646	2717			14785	669							
		STD	0020	0693	3465	2717	0009054	0018	14786	668							
213		OBS	0025	0693	34656	2718			14787	668							
		STD	0030	0698	3469	2732	0007690	0026	14755	673							
		STD	0050	0351	3478	2768	0004236	0038	14653	685							
213		OBS	0050	0351	34781	2768			14653	665							
		STD	0075	0221	3462	2783	0002619	0047	14602	687							
213		OBS	0075	0221	34621	2783			14602	687							
		STD	0100	0169	3484	2789	0002288	0054	14583	674							
213		OBS	0100	0168	34843	2789			14584	668							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311	16	EW	7124 N	047000E	284	17	09	17	213	1967	107	0073	01	33	8			5	8	0111	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE	TRANSP.	DIR.	SPEED OF FORCE	METER	INCHES	DRY BULB	WET BULB	CODE													
			34	119	075	042	031	04													

MESSAGE TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	ST CODE
		STD	0000	03	346	2722	0008018	0000	14754	698							
21		OBS	0000	03	34678	2722			14754	698							
21		OBS	0000	0351	34678	2723			14760	681							
		STD	0010	0341	3468	2726	0008018	0005	14761	680							
		OBS	0010	034	346	2726			14762	676							
		STD	0020	032	345	272	0008018	0016	14702	676							
		STD	0030	03	34	2737	0008018	0024	14734	677							
		STD	0050	245	3477	277	0008018	0034	1468	677							
1		STD	0050	156	34	2788			1457	677							

REF-OPEN I		P	LAT	N	E	MARS SQUARE	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BT (M)	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
TRY	ID						NO	STATION NUMBER		CRUISE NO	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311	167	EW	7124	N	047000	E	17	09	1967	107	0072	01	34	9			6	8	0112	
WATER		WIND		BARO- METER		AIR TEMP °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
COLOR CODE	TRANSP.	DR.	SPEED OF FORCE	METER	INCHES	DRY BULB	WET BULB	CODE												
			36	22	080	044	024	7	30											

MESSAGE TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	ST CODE
		STD	0000	034	346	271	0008018	0000	1472	677							
68		OBS	0000	0344	3462	2725			14702	677							
68		OBS	0000	03	3462	2725			14782	677							
68		OBS	0000	034	346	2716			14783	675							
		STD	0010	034	3462	2726	0008018	0009	14783	674							
		STD	0020	034	3462	2726	0008018	0010	14785	671							
68		OBS	0020	034	3462	2726			14785	671							
		STD	0030	0314	346	2710	0008018	0026	14780	671							
68		OBS	0030	0314	346	2720			14710	670							
		STD	0050	0457	3472	2752	0008018	0042	14677	666							
68		OBS	0050	0336	34770	276			14640	662							
		STD	0075	024	3479	2775	0008018	0054	14632	676							
68		OBS	0075	0276	3478	2777			14627	682							
		STD	0100	0258	3482	2782	0008018	0062	14613	664							
		STD	0125	0222	348	2785	0008018	0067	14606	660							
68		OBS	0125	0209	3403	2785			14606	679							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311	165	EW	72000N	042330E	284	22	09	18	116	1907	104		0274	02	36	7				6	8		0113
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
07	17	36	520	135	032	025	7	09															
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C/C						
		STD	0000	0675	3469	2723	0008467	0000	14777	693													
116		OBS	0000	0675	34693	2723			14777	693													
116		OBS	0004	0674	34689	2723			14777	693													
116		OBS	0009	0674	34699	2724			14778	690													
		STD	0010	0674	3470	2724	0008434	0008	14778	690													
		STD	0020	0675	3469	2723	0008510	0017	14780	692													
116		OBS	0022	0675	34689	2723			14760	692													
		STD	0030	0527	3473	2745	0008433	0024	14723	692													
116		OBS	0045	0345	34801	2771			14650	691													
		STD	0050	0339	3482	2773	0003030	0035	14649	692													
116		OBS	0070	0316	34887	2780			14643	695													
		STD	0075	0311	3490	2782	0002990	0043	14642	697													
116		OBS	0094	0268	34948	2788			14636	706													
		STD	0100	0279	3495	2788	0002369	0050	14633	708													
		STD	0125	0233	3494	2792	0002032	0055	14617	717													
		STD	0150	0174	3494	2790	0001614	0060	14595	724													
		STD	0200	0016	3493	2806	0000645	0066	14532	730													
116		OBS	T0214	-0033	34924	2808			14510	730													

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT		
311	165	EW	71310N	026540E	286	16	09	19	118	1967	111		0335	03	05	0				6	8		0114		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																				
07	16	07	S02	235	056	041	8	10																	
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C/C								
		STD	0000	0868	3416	2653	0015081	0000	14844	679															
118		OBS	0000	0868	34164	2653			14844	679															
118		OBS	0005	0866	34164	2654			14844	696															
		STD	0010	0873	3418	2654	0015085	0015	14846	683															
118		OBS	0010	0873	34176	2654			14846	683															
		STD	0020	0894	3438	2666	0013902	0030	14860	660															
118		OBS	0025	0904	34464	2671			14866	651															
		STD	0030	0849	3452	2684	0012214	0043	14847	649															
		STD	0050	0688	3471	2723	0008588	0063	14790	641															
118		OBS	0051	0683	34717	2724			14789	641															
		STD	0075	0626	3486	2743	0006710	0083	14772	648															
118		OBS	0076	0624	34869	2744			14771	646															
		STD	0100	0597	3498	2756	0005489	0098	14766	642															
118		OBS	0102	0594	34982	2757			14765	641															
		STD	0125	0526	3500	2767	0004521	0110	14741	647															
		STD	0150	0471	3501	2774	0003851	0121	14723	654															
118		OBS	0152	0468	35012	2774			14722	655															
		STD	0200	0427	3501	2779	0003419	0139	14713	666															
118		OBS	T0203	0425	35011	2779			14713	669															
		STD	0250	0394	3501	2782	0003113	0155	14707	667															
		STD	0300	0370	3501	2785	0002904	0170	14706	665															
118		OBS	T0324	0362	35013	2786			14706	664															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DUFF BUCKET	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				CLOUD CODES	NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA			WEA- THER CODE
311165	EW		71570N	026270E		286	16	09	19	149	1967	112		0289	03	07	2			6 8	0115	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						06	15	10	S02	235	053	039	8	10								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C					
		STD	0000	0839	3466	2697	0010987	0000	14840	662												
149		OBS	0000	0839	34658	2697			14840	662												
149		OBS	0005	0837	34660	2697			14840	660												
		STD	0010	0838	3466	2697	0010961	0011	14841	657												
149		OBS	0010	0838	34662	2697			14841	657												
		STD	0020	0838	3468	2699	0010846	0022	14843	660												
149		OBS	0026	0824	34707	2703			14839	661												
		STD	0030	0791	3475	2711	0009667	0032	14828	661												
		STD	0050	0653	3491	2743	0000042	0048	14779	660												
149		OBS	0053	0636	34920	2746			14773	660												
		STD	0075	0545	3494	2760	0005127	0063	14740	674												
149		OBS	0079	0532	34944	2761			14730	675												
		STD	0100	0480	3495	2768	0004357	0075	14718	666												
149		OBS	0105	0471	34949	2769			14715	665												
		STD	0125	0467	3498	2772	0004003	0085	14717	666												
		STD	0150	0455	3500	2775	0003750	0095	14710	660												
149		OBS	0157	0451	35000	2776			14716	668												
		STD	0200	0410	3501	2781	0003240	0113	14700	661												
149		OBS	0207	0404	35015	2782			14705	660												
		STD	0250	0386	3501	2783	0003045	0128	14704	657												
149		OBS	0281	0383	35009	2783			14708	657												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT	PER		SEA
311165	EW		72310N	025540E	286	25	04	19	106	1967	113	0206	02	04	2			5 8	0116	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE			DRY BULB	WET BULB							
								17	S11	253	053	057	8	10						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C C		
		STD	0000	0708	3402	2717	0007057		0000	14872	666									
186		OBS	0000	0788	34819	2717				14822	666									
186		OBS	0005	0788	34819	2717				14823	666									
		STD	0010	0789	3482	2717	0009104		0009	14824	667									
186		OBS	0010	0789	34817	2717				14824	667									
		STD	0020	0790	3483	2716	0007036		0018	14826	660									
186		OBS	0024	0730	34834	2718				14827	660									
		STD	0030	0742	3486	2727	0008164		0027	14810	662									
186		OBS	0049	0638	34934	2747				14773	650									
		STD	0050	0637	3494	2746	0000215		0041	14773	650									
186		OBS	0073	0611	35035	2759				14700	645									
		STD	0075	0609	3504	2759	0005154		0055	14767	645									
186		OBS	0078	0580	35065	2765				14760	650									
		STD	0100	0577	3507	2765	0004609		0066	14759	651									
		STD	0125	0544	3506	2769	0004254		0079	14750	657									
186		OBS	0140	0521	35063	2772				14744	661									
		STD	0150	0518	3506	2772	0004011		0089	14743	662									
186		OBS	0115	0482	35053	2776				14736	669									
		STD	0200	0478	3505	2776	0003689		0106	14735	669									
186		OBS	0243	0440	35050	2780				14726	656									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
311165		EW	72540N	025150E	286	25	09	19	213	1967		114		0414	04	17	2				5	8	0117				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
									17	505	226	054	039	8	11												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C										
		STD	0000	0768	3481	2719	0008881	0000	14814	590																	
213		OBS	0000	0768	34805	2719			14814	590																	
213		OBS	0005	0767	34805	2719			14815	597																	
		STD	0010	0769	3481	2719	0008898	0009	14817	591																	
213		OBS	0010	0769	34807	2719			14817	591																	
		STD	0020	0756	3481	2721	0008742	0018	14813	592																	
213		OBS	0025	0748	34805	2722			14811	593																	
		STD	0030	0732	3484	2727	0008177	0026	14806	588																	
		STD	0050	0684	3497	2744	0006599	0041	14792	574																	
213		OBS	0051	0682	34975	2744			14792	573																	
		STD	0075	0665	3515	2761	0005048	0056	14791	563																	
213		OBS	0076	0664	35154	2761			14791	563																	
		STD	0100	0620	3517	2768	0004359	0067	14778	571																	
213		OBS	0102	0617	35171	2769			14777	572																	
		STD	0125	0582	3516	2772	0003997	0078	14766	577																	
		STD	0150	0549	3515	2776	0003705	0087	14757	583																	
213		OBS	0152	0547	35147	2776			14756	583																	
		STD	0200	0503	3513	2780	0003362	0105	14746	589																	
213		OBS	T0203	0500	35131	2780			14745	589																	
		STD	0250	0438	3510	2785	0002926	0121	14727	594																	
		STD	0300	0367	3507	2790	0002446	0134	14705	599																	
213		OBS	T0305	0360	35067	2790			14703	600																	
		STD	0400	0213	3504	2802	0001251	0153	14655	609																	
213		OBS	T0400	0213	35044	2802			14655	609																	

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311165		EW	73225N	024370E	286	34	09	20	011	1967		115		0406	04	17	2				5	8	0118		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								18		508	217	052	038	8	11										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C								
		STD	0000	0656	3491	2743	0006619	0000	14772	683															
011		OBS	0000	0656	34908	2743			14772	683															
011		OBS	0005	0656	34905	2742			14773	690															
		STD	0010	0657	3490	2742	0006677	0007	14774	689															
011		OBS	0010	0657	34904	2742			14774	689															
		STD	0020	0656	3491	2743	0006661	0013	14775	684															
011		OBS	0025	0655	34907	2743			14776	681															
		STD	0030	0630	3496	2750	0005947	0020	14767	676															
		STD	0050	0546	3508	2770	0004059	0030	14738	662															
011		OBS	0050	0546	35080	2770			14738	662															
		STD	0075	0480	3508	2778	0003339	0039	14715	661															
011		OBS	0076	0478	35080	2779			14715	661															
		STD	0100	0453	3508	2782	0003058	0047	14708	669															
011		OBS	0101	0452	35082	2782			14708	669															
		STD	0125	0431	3507	2783	0002940	0054	14703	673															
		STD	0150	0407	3506	2785	0002789	0062	14697	677															
011		OBS	0151	0406	35057	2785			14697	677															
		STD	0200	0356	3505	2789	0002394	0074	14684	691															
011		OBS	T0202	0354	35046	2789			14683	691															
		STD	0250	0292	3504	2795	0001903	0085	14664	653															
		STD	0300	0232	3503	2799	0001449	0094	14647	614															
011		OBS	T0302	0230	35032	2799			14646	612															
011		OBS	T0392	0133	35012	2805			14618	702															

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		73510N	024000E	286	34	09	20	044	1967		116		0450	04	17	2				5	8	0119
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
									16	506	205	051	039	8	12								

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	T °C
		STD	0000	0628	3492	2747	0006213	0000	14761	680							
046		OBS	0000	0628	34915	2747			14761	686							
046		OBS	0005	0633	34915	2746			14764	693							
		STD	0010	0626	3491	2747	0006418	0006	14762	680							
046		OBS	0010	0626	34913	2747			14762	688							
		STD	0020	0627	3491	2747	0006264	0012	14764	691							
046		OBS	0025	0627	34909	2747			14765	693							
		STD	0030	0594	3495	2754	0005576	0018	14753	685							
		STD	0050	0497	3506	2775	0003655	0028	14718	663							
046		OBS	0050	0497	35059	2775			14718	663							
		STD	0075	0454	3508	2781	0003093	0036	14735	662							
046		OBS	0076	0452	35076	2781			14734	662							
		STD	0100	0421	3506	2784	0002661	0043	14695	672							
046		OBS	0101	0420	35052	2784			14695	672							
		STD	0125	0388	3505	2787	0002569	0050	14685	683							
		STD	0150	0358	3506	2790	0002294	0056	14676	695							
046		OBS	0151	0357	35055	2790			14676	695							
		STD	0200	0309	3505	2794	0001926	0067	14664	700							
046		OBS	T0204	0307	35052	2794			14663	700							
		STD	0250	0277	3505	2797	0001682	0076	14658	706							
		STD	0300	0237	3504	2799	0001433	0084	14649	712							
046		OBS	T0303	0234	35039	2800			14648	712							
		STD	0400	0131	3501	2805	0000831	0095	14619	697							
046		OBS	T0402	0129	35008	2805			14618	690							

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		74210N	023290E	286	42	09	20	087	1967		117		0251	02	34	1				6 8		0120
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
						06	15	0	500	204	46	032	8					10					

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	T °C
		STD	0000	0343	3395	2703	0010353	0000	14630	762							
087		OBS	0000	0343	33954	2703			14630	762							
087		OBS	0005	0343	33973	2705			14631	764							
		STD	0010	0345	3399	2706	0010137	0010	14633	760							
087		OBS	0010	0345	33986	2706			14633	760							
		STD	0020	0442	3430	2721	0008724	0020	14680	742							
087		OBS	0025	0408	34440	2729			14694	734							
		STD	0030	0446	3461	2745	0006446	0027	14688	724							
		STD	0050	0373	3504	2787	0002499	0036	14666	701							
087		OBS	0051	0370	35048	2788			14665	700							
		STD	0075	0322	3504	2792	0002029	0042	14648	705							
087		OBS	0076	0320	35041	2792			14648	705							
		STD	0100	0284	3504	2795	0001712	0047	14630	708							
087		OBS	0101	0283	35037	2795			14636	708							
		STD	0125	0260	3503	2797	0001596	0051	14630	706							
		STD	0150	0237	3503	2799	0001416	0054	14624	704							
087		OBS	0152	0235	35027	2799			14623	704							
		STD	0200	0191	3502	2802	0001143	0061	14612	700							
087		OBS	T0204	0186	35016	2802			14610	700							
087		OBS	T0238	0134	35000	2804			14593	706							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT						
311165	EW		74470N	022400E		286	42	09	20	118	1967		118		0099	01	34	10				08		0121				
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																				
						05	18	13	S02	198	026	021	8	06														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₂ -Si $\mu\text{g} - \text{dl/l}$	pH										
		STD	0000	0094	3308	2653		0015172		0000	14509	827																
	118	OBS	0000	0094	33075	2653					14509	827																
	118	OBS	0005	0092	33079	2653					14509	827																
		STD	0010	0088	3309	2654		0015000		0015	14508	828																
	118	OBS	0010	0088	33093	2654					14508	828																
		STD	0020	0014	3375	2711		0009601		0027	14485	819																
	118	OBS	0025	-0019	33996	2733					14474	813																
		STD	0030	-0053	3408	2741		0006777		0036	14461	802																
		STD	0050	-0146	3435	2766		0004403		0047	14424	761																
	188	OBS	0050	-0146	34346	2766					14424	761																
		STD	0075	-0150	3450	2778		0003197		0056	14429	720																
	118	OBS	0084	-0152	34502	2779					14429	708																

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARS SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165	EW		75150N	022000E		286	52	09	20	146	1967		119		0055	00	33	11			68		0122
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB															
		06	15	25	S07	180	034	028	8	05													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₂ -Si $\mu\text{g} - \text{dl/l}$	pH	S					
		STD	0000	0221	3386	2706	0010076	0000	14576	763													
	146	OBS	0000	0221	33857	2706			14576	763													
	146	OBS	0005	0222	33865	2707			14578	764													
		STD	0010	0221	3387	2707	0010019	0010	14578	759													
	146	OBS	0010	0221	33865	2707			14578	759													
		STD	0020	0221	3307	2707	0009985	0020	14580	758													
	146	OBS	0025	0221	33876	2708			14581	757													
		STD	0030	0221	3388	2708	0009914	0030	14581	756													
		STD	0050	0219	3389	2709	0009624	0050	14584	754													
	146	OBS	0050	0219	33891	2709			14584	754													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		75435N	021150E		286	51	09	20	174	1967		120		0037	00	26	12				58	0123
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)		DIR.	SPEED OF FORCE	DRY BULB	WET BULB																
						27	S10	173	041	029	8	05											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₂ -Si $\mu\text{g} - \text{dl/l}$	pH					
		STD	0000	0275	3404	2716	0009147		0000		14602	759											
175		OBS	0000	0275	34036	2716					14602	759											
175		OBS	0005	0275	34026	2715					14603	764											
		STD	0010	0274	3403	2716	0009190		0009		14603	759											
175		OBS	0010	0274	34070	27190					14603	759											
		STD	0020	0273	3403	2716	0009180		0018		14605	759											
175		OBS	0020	0273	34031	2716					14605	755											
		STD	0030	0273	3403	2716	0009178		0028		14606	760											
175		OBS	0035	0273	34033	2716					14607	760											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSGEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
311165	EW		76096N	020340E		286	60	09	20	203	1967		121	0190	02	28	2				0		0124
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
									26	S17	153	028	022	8	08								
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t 07	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	S C C						
		STD	0000	0290	3379	2695	0011123	0000	14605	771													
203		OBS	0000	0290	33791	2695			14605	771													
203		OBS	0005	0289	33790	2695			14606	775													
		STD	0010	0291	3381	2696	0011016	0011	14608	773													
203		OBS	0019	0299	33837	2698			14613	770													
		STD	0020	0302	3388	2701	0010564	0022	14615	767													
		STD	0030	0330	3425	2728	0008026	0031	14634	737													
203		OBS	0044	0344	34597	2754			14647	706													
		STD	0050	0337	3464	2758	0005167	0044	14645	705													
203		OBS	0068	0305	34753	2771			14636	695													
		STD	0075	0282	3479	2776	0003561	0055	14628	689													
203		OBS	0093	0238	34862	2785			14613	678													
		STD	0100	0238	3497	2786	0002601	0063	14614	678													
		STD	0125	0238	3490	2788	0002390	0069	14619	677													
203		OBS	0142	0236	34913	2789			14621	677													
		STD	0150	0235	3491	2790	0002274	0075	14622	675													
203		OBS	0171	0230	34915	2790			14623	669													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSGEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.		STATION NUMBER	DIR	HGT		PER	SEA	
311165		EW	76270N	020080E		286	60	09	20	227	1967	122	0190	02	28	2		5	2	0125
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB							
									32	S10	140	027	018	8	09					
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-S107		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	S C C		
		STD	0000	0127	3337	2674	0013132		0000	14528	801									
228		OBS	0000	0127	33369	2674				14528	801									
228		OBS	0005	0126	33367	2674				14528	805									
		STD	0010	0125	3337	2674	0013128		0013	14529	805									
228		OBS	0010	0125	33368	2674				14529	805									
		STD	0020	0074	3368	2702	0010452		0025	14512	813									
228		OBS	0025	0050	33837	2716				14506	817									
		STD	0030	0053	3402	2731	0007745		0034	14508	805									
		STD	0050	0041	3458	2777	0003390		0045	14514	753									
228		OBS	0050	0041	34581	2777				14514	753									
228		OBS	0074	0255	34917	2788				14618	680									
		STD	0075	0256	3492	2788	0002358		0052	14618	680									
228		OBS	0099	0262	34968	2792				14626	682									
		STD	0100	0262	3497	2791	0002071		0058	14626	682									
		STD	0125	0252	3495	2791	0002146		0063	14625	683									
228		OBS	0148	0203	34930	2793				14607	684									
		STD	0150	0197	3493	2794	0001045		0068	14605	684									
228		OBS	0172	0112	34882	2796				14570	679									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
311165		EW	76100N	017000E		287	67	09	21	037	1967	123		0293	03	31	2				5 5	0126				
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																	
						31	S15	145	022		016	8					10									
MISSING TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C								
		STD	0000	0133	3321	2661	0014348		0000	14528	800															
037		OBS	0000	0133	33214	2661				14528	800															
037		OBS	0005	0132	33216	2661				14529	806															
037		OBS	0009	0130	33220	2662				14529	804															
		STD	0010	0160	3330	2666	0013870		0014	14543	798															
		STD	0020	0397	3403	2704	0010303		0026	14658	750															
037		OBS	0023	0446	34206	2713				14681	738															
		STD	0030	0487	3449	2731	0007786		0035	14703	715															
037		OBS	0046	0490	34888	2762				14712	691															
		STD	0050	0439	3487	2766	0004444		0047	14691	701															
037		OBS	0069	0270	34804	2778				14622	729															
		STD	0075	0259	3481	2779	0003214		0057	14618	728															
037		OBS	0092	0230	34812	2782				14606	723															
		STD	0100	0211	3481	2784	0002806		0065	14601	720															
		STD	0125	0172	3482	2787	0002465		0071	14589	710															
037		OBS	0138	0166	34825	2788				14588	705															
		STD	0150	0194	3486	2789	0002350		0077	14603	700															
037		OBS	T0183	0216	34927	2792				14619	691															
		STD	0200	0197	3491	2792	0002013		0088	14613	691															
		STD	0250	0019	3486	2800	0001158		0096	14541	690															
037		OBS	T0262	-0050	34850	2803				14511	690															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	75425N	017470E		287	57	09	21	068	1967	124		0198	02	31	2				6	5	0127
						WATER		WIND		AIR TEMP. °C													
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						05	09	21	S15	145	040	028	8	09									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	0392	3407	2708	0009914	0000	14653	750													
068		OBS	0000	0392	34073	2708			14653	750													
068		OBS	0005	0392	34074	2708			14654	752													
		STD	0010	0391	3407	2708	0009913	0010	14654	751													
068		OBS	0010	0391	34073	2708			14654	751													
		STD	0020	0391	3408	2709	0009861	0020	14656	750													
068		OBS	0025	0391	34085	2709			14657	750													
		STD	0030	0433	3434	2725	0008341	0029	14679	728													
		STD	0050	0536	3502	2767	0004406	0042	14733	672													
068		OBS	0050	0536	35018	2767			14733	672													
		STD	0075	0517	3510	2775	0003643	0052	14731	674													
068		OBS	0075	0517	35095	2775			14731	674													
		STD	0100	0468	3508	2780	0003206	0060	14715	678													
068		OBS	0100	0468	35084	2780			14715	678													
		STD	0125	0358	3502	2787	0002572	0067	14672	683													
068		OBS	0149	0302	34989	2790			14651	685													
		STD	0150	0301	3499	2790	0002287	0074	14651	685													
068		OBS	T0173	0296	34979	2789			14653	683													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311165		EW	75145N	018310E		287	58	09	21	101	1967		125		0048	00	31	2				6 7		0128		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																	
		06	15	30	S15	158		034	024	8	05															
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	0225	3378	2700		0010712		0000		14577	779													
	101	OBS	0000	0225	33777	2700						14577	779													
	101	OBS	0005	0225	33781	2700						14578	780													
		STD	0010	0223	3378	2700		0010708		0011		14578	779													
	101	OBS	0010	0223	33776	2700						14578	779													
		STD	0020	0223	3379	2701		0010606		0021		14579	780													
	101	OBS	0025	0223	33791	2701						14580	780													
		STD	0030	0223	3380	2702		0010535		0032		14581	781													
	101	OBS	0045	0223	33810	2702						14584	786													

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ALONG NOON	MARSEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
311165	EW	74470N	019140E		287	49 09	21	142	1967		126	0100	01	32	1			6	8	0129
					WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
					COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB		WET BULB									
								27	510	142	022	018	8	06						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-30°		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C	
		STD	0000	0152	3363	2693		0011302		0000	14543	801								
	142	OBS	0000	0152	33631	2693					14543	801								
	142	OBS	0005	0153	33627	2693					14544	804								
		STD	0010	0151	3363	2693		0011289		0011	14544	801								
	142	OBS	0010	0151	33632	2693					14544	801								
		STD	0020	0148	3365	2695		0011135		0023	14544	800								
	142	OBS	0025	0141	33669	2697					14542	799								
		STD	0030	0120	3372	2703		0010424		0033	14535	796								
		STD	0050	0061	3388	2719		0008872		0053	14513	786								
	142	OBS	0050	0061	33878	2719					14513	786								
		STD	0075	0058	3403	2731		0007700		0073	14518	775								
	142	OBS	0085	0057	34080	2735					14520	771								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OUT NOON	MARSEN SQUARE	STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.						10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311165		EW	74175N	019580E		287	49	09 21 181	1967		127	0101	01	34	2			6	8		0130
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
				25		511	143	028	022	8	06										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C				
		STD	0000	0160	3359	2690	0011643	0000	14546	797											
	181	OBS	0000	0160	33593	2690			14546	797											
	181	OBS	0005	0160	33584	2689			14546	801											
		STD	0010	0164	3364	2693	0011293	0011	14550	793											
	181	OBS	0010	0164	33643	2693			14550	793											
		STD	0020	0159	3368	2697	0010981	0023	14550	790											
	181	OBS	0025	0151	33707	2699			14547	789											
		STD	0030	0129	3375	2704	0010253	0033	14539	786											
		STD	0050	0048	3392	2723	0008465	0052	14508	783											
	181	OBS	0050	0048	33922	2723			14508	783											
		STD	0075	-0039	3417	2748	0006138	0070	14476	772											
	181	OBS	0085	-0069	34276	2757			14465	767											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ALONG NOON	MARSEN SQUARE	STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.						CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA			TYPE	AMT					
311165	EW		73510N	020360E		286	30	09	21	222	1967		128	0458	04	31	2			6	8	0131
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
			24	510	131	030	025	6	12													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	S C					
		STD	0000	0535	3456	2731	0007752	0000	14719	750												
	222	OBS	0000	0535	34561	2731			14719	750												
	222	OBS	0005	0535	34562	2731			14720	728												
		STD	0010	0534	3456	2731	0007783	0008	14720	726												
	222	OBS	0010	0534	34557	2731			14720	726												
		STD	0020	0620	3479	2738	0007077	0015	14759	704												
	222	OBS	0024	0634	34802	2742			14767	697												
		STD	0030	0581	3493	2754	0005569	0022	14747	687												
	222	OBS	0049	0463	35068	2779			14704	668												
		STD	0050	0462	3507	2779	0003203	0030	14704	668												
	222	OBS	0073	0426	35063	2783			14692	674												
		STD	0075	0421	3507	2784	0002804	0038	14691	675												
	222	OBS	0098	0371	35053	2788			14673	691												
		STD	0100	0369	3505	2788	0002409	0044	14673	694												
		STD	0125	0342	3505	2791	0002184	0050	14665	726												
	222	OBS	0147	0321	35050	2793			14660	739												
		STD	0150	0319	3505	2793	0001994	0055	14660	737												
	222	OBS	T0196	0265	35044	2796			14653	716												
		STD	0200	0283	3504	2795	0001776	0065	14652	717												
		STD	0250	0252	3504	2798	0001533	0073	14647	721												
	222	OBS	T0299	0217	35036	2801			14640	722												
		STD	0300	0216	3504	2801	0001281	0080	14640	722												
	222	OBS	T0399	0130	35017	2806			14618	712												
		STD	0400	0129	3502	2806	0000763	0090	14618	712												
	222	OBS	T0450	0060	34998	2806			14604	710												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165	EW		73278N	021160E		286	31	09	22	020	1967	129	0471	04	27	2				5	8		0132
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						CDLDR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									26	S08	106	055	053	8	12								
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu g - \text{ml/l}$	TOTAL-P $\mu g - \text{ml/l}$	NO ₂ -N $\mu g - \text{ml/l}$	NO ₃ -N $\mu g - \text{ml/l}$	Si O ₄ -Si $\mu g - \text{ml/l}$	pH	S CD						
		STD	0000	0554	3448	2722	0008577	0000	14725	744													
020		OBS	0000	0554	34480	2722			14725	744													
020		OBS	0005	0553	34483	2722			14726	745													
		STD	0010	0554	3449	2723	0008515	0009	14727	750													
020		OBS	0010	0554	34490	2723			14727	750													
		STD	0020	0566	3451	2723	0008518	0017	14734	744													
020		OBS	0024	0570	34536	2725			14737	740													
		STD	0030	0571	3470	2737	0007171	0025	14740	721													
020		OBS	0049	0575	35053	2765			14750	684													
		STD	0050	0574	3506	2765	0004541	0037	14749	684													
020		OBS	0074	0542	35097	2772			14741	689													
		STD	0075	0540	3510	2773	0003895	0047	14740	689													
020		OBS	0099	0497	35084	2777			14726	696													
		STD	0100	0496	3508	2776	0003548	0056	14726	696													
		STD	0125	0458	3508	2781	0003156	0065	14715	703													
020		OBS	0147	0422	35067	2784			14703	708													
		STD	0150	0415	3506	2784	0002873	0072	14700	709													
020		OBS	T0199	0325	35025	2790			14670	721													
		STD	0200	0324	3503	2790	0002270	0085	14670	721													
		STD	0250	0279	3503	2795	0001873	0096	14659	730													
020		OBS	T0296	0240	35029	2798			14649	738													
		STD	0300	0238	3503	2798	0001524	0104	14649	738													
020		OBS	T0397	0159	35017	2804			14631	735													
		STD	0400	0156	3502	2804	0000983	0117	14630	735													
020		OBS	T0450	0099	35004	2807			14612	734													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
311165	EW		72550N	021560E		286	21	09	22	062	1967	130	0430	04	26	2				6	8	0133				
						WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB														
						06	14	27	S03	100	065	052	8	11												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	Si O ₄ -Si µg - ml/l	pH	S CD								
		STD	0000	0743	3475	2718	0008931		0000	14804	706															
062		OBS	0000	0743	34752	2718				14804	706															
062		OBS	0005	0739	34742	2718				14803	712															
		STD	0010	0739	3474	2718	0008975		0009	14804	712															
062		OBS	0010	0739	34741	2718				14804	712															
		STD	0020	0736	3474	2718	0008992		0018	14805	712															
062		OBS	0025	0735	34733	2718				14805	710															
		STD	0030	0698	3479	2728	0008092		0026	14792	702															
		STD	0050	0608	3497	2754	0005628		0040	14762	680															
062		OBS	0051	0606	34983	2755				14761	679															
		STD	0075	0630	3517	2767	0004448		0053	14777	674															
062		OBS	0076	0631	35173	2767				14778	674															
		STD	0100	0584	3514	2770	0004135		0064	14763	678															
062		OBS	0102	0580	35138	2771				14761	678															
		STD	0125	0546	3513	2774	0003785		0073	14751	686															
		STD	0150	0507	3512	2778	0003436		0082	14739	694															
062		OBS	0152	0504	35117	2778				14738	695															
		STD	0200	0426	3507	2784	0002944		0098	14713	709															
062		OBS	T0203	0421	35070	2784				14712	710															
		STD	0250	0339	3505	2791	0002270		0111	14685	726															
		STD	0300	0264	3504	2797	0001674		0121	14661	736															
062		OBS	T0306	0256	35038	2798				14658	737															
		STD	0400	0150	3502	2805	0000905		0134	14627	735															
062		OBS	T0427	0127	35011	2806				14621	730															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRAFT INCH	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311165	EW		7227N	022320E		286	22	09	22	101	1967	131	0333	03	29	2			8	8	0134	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						06	16	27	3	098	073	061	7	10								
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C				
		STD	0000	0821	3479	2710	0009715		0000	14835	690											
	101	OBS	0000	0821	34794	2710				14835	690											
	101	OBS	0005	0820	34791	2710				14835	693											
		STD	0010	0818	3479	2710	0009698		0010	14835	693											
	101	OBS	0010	0818	34793	2710				14835	693											
		STD	0020	0817	3479	2711	0009701		0019	14836	703											
	101	OBS	0025	0814	34793	2711				14836	704											
		STD	0030	0813	3481	2713	0009536		0029	14837	597											
		STD	0050	0775	3489	2725	0008428		0047	14826	677											
	101	OBS	0050	0775	34891	2725				14826	677											
		STD	0075	0647	3503	2753	0005724		0065	14782	674											
	101	OBS	0075	0647	35028	2753				14782	674											
		STD	0100	0617	3505	2759	0005194		0078	14775	674											
		OBS	0100	0617	35053	2759				14775	674											
		STD	0125	0556	3508	2769	0004278		0090	14755	677											
		STD	0150	0510	3509	2776	0003680		0100	14740	682											
	101	OBS	0150	0510	35092	2776				14740	682											
		STD	0200	0465	3509	2781	0003229		0117	14730	696											
	101	OBS	T0202	0463	35092	2781				14729	697											
		STD	0250	0413	3508	2786	0002605		0132	14716	700											
		STD	0300	0355	3506	2790	0002390		0145	14700	703											
	101	OBS	T0310	0343	35051	2791				14696	704											

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
311165	EW		7159N	023110E	286	13	04	22	143	1967	132		0303	03	25	1			8	8	0135			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
								24	507	069	094	083	7	09										
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)		T °C		S ‰		SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY		D ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C
		STD	0000		0496		3457		2681		0012474		0000		14860		684							
	143	OBS	0000		0496		34572		2681						14860		684							
	143	OBS	0005		0497		34576		2681						14861		685							
		STD	0010		0495		3454		2682		0012352		0012		14861		683							
	143	OBS	0010		0493		34585		2682						14861		683							
		STD	0020		0496		3463		2686		0012179		0025		14864		689							
	143	OBS	0025		0497		34643		2686						14865		691							
		STD	0030		0487		3465		2687		0011788		0037		14863		684							
		STD	0050		0432		3473		2701		001695		0059		14846		666							
	143	OBS	0050		0432		34696		2701						14846		666							
		STD	0075		0733		3493		2734		0007814		0082		14815		661							
	143	OBS	0075		0733		34929		2734						14815		661							
		STD	0100		0698		3501		2745		0006598		0100		14806		657							
	143	OBS	0100		0698		35006		2745						14806		657							
		STD	0125		0677		3504		2751		0006105		0116		14803		662							
		STD	0150		0651		3507		2756		0005579		0130		14797		667							
		STD	0200		0584		3519		2761		0004699		0156		14780		677							
	143	OBS	0200		0584		35190		2761						14780		677							
		STD	0250		0509		3507		2774		0003957		0177		14756		686							
	143	OBS	T0291		0432		35018		2779						14730		693							

REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	DIST. EPOCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

311165	EW		71202N	024058E		286	14	09	22	199	1967		133		0318	02	26	2			5	8	0136
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WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		28	508	062	097	084	8	10	

		28	508	062	097	054	8	10	
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MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	ND ₂ -N $\mu g \cdot dl/l$	ND ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	S C C
		STO	0000	0934	3407	2635	0016807	0000	14868	684							
199		OBS	0000	0934	34066	2635			14868	684							
199		OBS	0004	0935	34066	2635			14869	686							
199		OBS	0008	0934	34070	2636			14869	684							
		STO	0010	0932	3413	2641	0016321	0017	14869	684							
		STO	0020	0925	3435	2659	0014603	0032	14871	681							
199		OBS	0020	0925	34350	2659			14871	681							
		STO	0030	0919	3444	2667	0013864	0046	14872	677							
199		OBS	0040	0913	34504	2673			14872	672							
		STO	0050	0836	3453	2687	0011986	0072	14845	664							
199		OBS	0059	0786	34583	2699			14828	659							
		STO	0075	0747	3474	2717	0009202	0099	14818	653							
199		OBS	0079	0739	34772	2720			14816	652							
		STO	0100	0720	3497	2739	0007164	0119	14814	658							
199		OBS	0114	0704	35061	2748			14812	661							
		STO	0125	0687	3508	2752	0005940	0135	14807	663							
199		OBS	T0148	0655	35114	2759			14799	666							
		STO	0150	0652	3512	2760	0005257	0149	14798	666							
		STO	0200	0595	3513	2768	0004488	0174	14783	668							
199		OBS	T0243	0558	35143	2774			14776	669							

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Woods Hole Oceanographic Institution
ATLAS - GAZETTEER COLLECTION

